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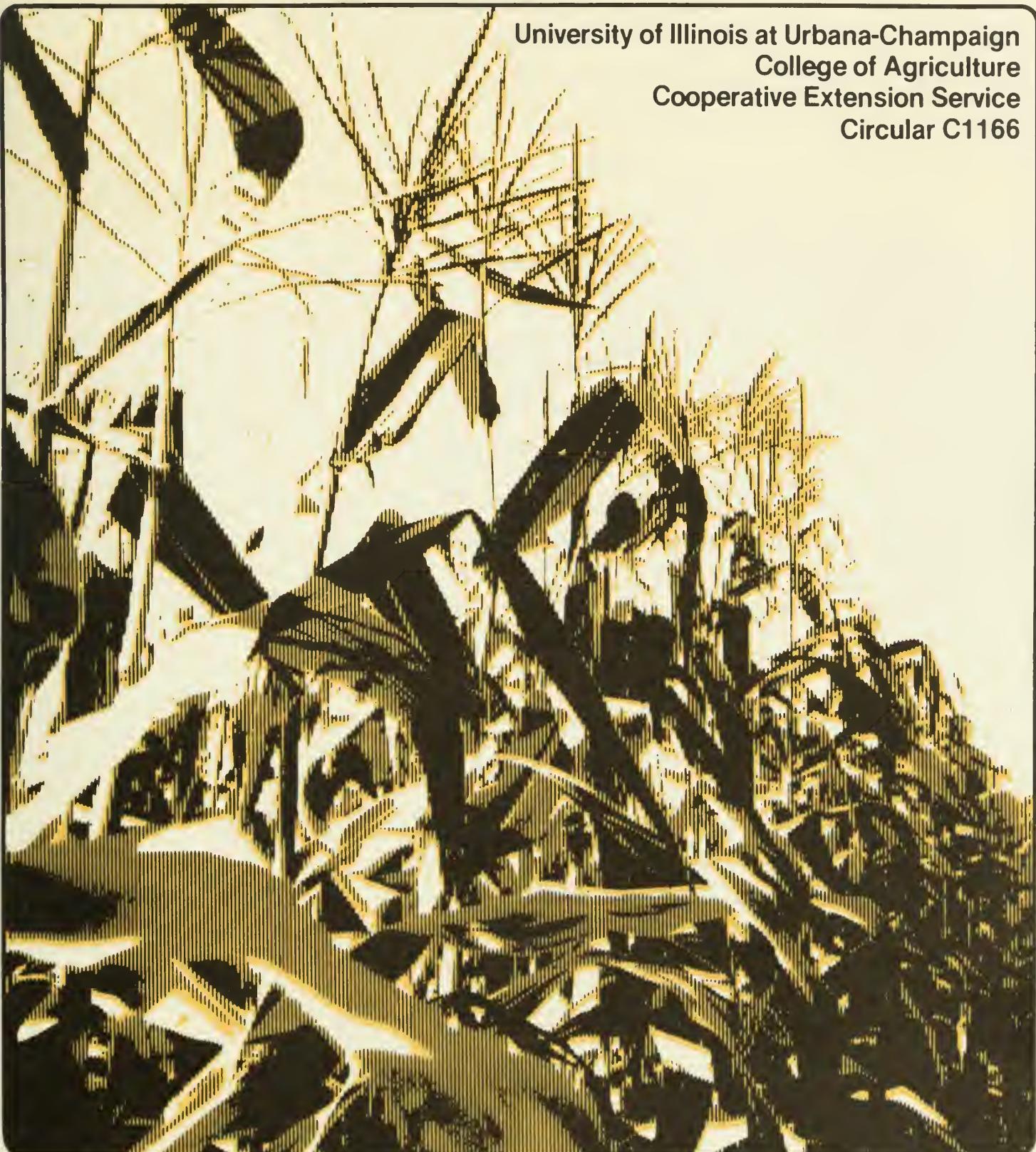
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Performance of Commercial Corn Hybrids in Illinois 1978

University of Illinois at Urbana-Champaign
College of Agriculture
Cooperative Extension Service
Circular C1166





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This circular was prepared by G. L. Ross, Associate Agronomist; P. L. Raymer, Assistant Agronomist; D. W. Graffis, Professor of Forage Crops Extension, and S. G. Carmer, Professor of Biometry. Data Processing was done by the Statistical Laboratory of the Agronomy Department.

Urbana, Illinois

December, 1978

Issued in furtherance of Cooperative Extension Work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. JOHN B. CLAAR, Director, Cooperative Extension Service, University of Illinois at Urbana-Champaign.

The Illinois Cooperative Extension Service provides equal opportunities in programs and employment.

PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1978

(With 1976 and 1977 Listings)

CORN YIELDS IN ILLINOIS IN 1978 are estimated to average 116 bushels per acre. The 1665 entries over 11 locations in the state reported in this circular averaged 125 bushels per acre.

Several fields were planted in late April and early May, but cold, wet weather in early May caused slowed emergence and poor stands in these early planted fields and delayed the planting of other fields. Early season cutworm infestations decreased stands at the Macomb and Galesburg locations. Substantial corn borer damage occurred at the Greenfield, Macomb, and Urbana locations. Although northern and central Illinois experienced an exceptionally good growing season with adequate rainfall throughout, the southern tip of the state suffered near-drought conditions during the mid and late growing season. Late season stalk rot infestations at the Urbana location resulted in severe lodging problems and necessitated an early harvest. The warm, dry conditions that prevailed throughout most of the state during the late growing season and early harvest season allowed hybrids to reach full maturity before frost and aided in a timely harvest.

Plan of the Tests

Selection of entries. Each year, producers of hybrid seed corn in Illinois and surrounding states are invited to enter hybrids in the Illinois performance trials. This testing program is financed by a fee of \$35 for each hybrid at each location entered. Most of these hybrids are commercially available, although a few experimental hybrids are also entered. In 1978, a survey of popular hybrids was conducted among county Extension advisers, and the ten most popular hybrids at each test location were added to the trials. These hybrids are marked by an asterisk(*) in the tables.

Number and location of tests. In 1978, 18 major tests were conducted at 11 locations in the state (see the map on page 5). These sites represent major soil and climatic areas of the state.

Hybrids. There were 494 hybrids from 71 companies tested in 1978.

Field-plot design. Three replications of lattice design were used to assure each entry an equal chance to show its merits.

Planting methods. All trials were planted by machine. All test fields except those at DeKalb, Macomb, Brownstown, Elwood, and Urbana were part of larger cornfields and thus were bordered by other corn. Each hybrid plot was overplanted 30 percent and later thinned to desired stands. Each plot was four rows wide and 25 feet long. The center two rows of each plot were harvested to determine yields.

Fertilization. All test fields were at a high level of fertility. Additional fertilizer was plowed down or side-dressed as needed to assure top yields.

Method of harvest. All plots were harvested with a self-propelled combine. Shelled corn from each plot was collected, weighed, and tested for moisture content. No allowance was made for corn that might have been lost in harvest.

Measuring Performance

Grain moisture. Occasionally, hybrids too late in maturity for a given area are entered in these tests. Such hybrids are often high in yield, but their moisture content may make them poor choices for farm use unless proper drying or storage facilities are available.

Yield of grain. Shelled-corn weight and moisture percentage were measured for each plot of a hybrid and converted to bushels per acre of No. 2 shelled corn (15.5-percent moisture). An electronic moisture tester was used for all moisture readings.

Erect plants. The number of erect plants in each plot of a hybrid was counted at harvest time. Any plant leaning at an angle of more than 45 degrees or broken below the ear was considered lodged. Plants broken above the ear were considered erect.

Population. In late June, plants in all plots on all fields were counted and population computed. Plots with over 100 percent of the desired population were thinned at that time. Stand differences may be caused by failure to germinate or by damage from diseases, insects, cultivation, or animal pests.

Comparing hybrids. It is impossible to measure performance exactly in any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions can produce variability. Results of repeated tests, like those reported here, are more reliable than those of a single-year or a single-strip test. In general, a yield difference of a few bushels per acre is not significant in these tests. When one hybrid consistently outyields another at several test locations and over several years of testing, the chances are good that this difference is real and should be a consideration in choosing a hybrid. But yield alone is not enough. Consider also the grain moisture content, percentage of erect plants, percentage of stand, or the number of plants per acre in comparing yields.

A number of statistical tests are available for comparing hybrids. One of these tests, the least significant difference (L.S.D.), when used in the manner suggested by Carmer and Swanson,¹ is quite simple to

¹Carmer, S. G. and M. R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." *Journal of American Statistical Association* 68:66-74. 1973.

apply and is more appropriate than most other tests. When two hybrids are compared and the difference between them is greater than the tabulated L.S.D. value, the hybrids are judged to be "significantly different."

When the observed mean of hybrid A is larger than that of hybrid B and the difference between them is found to be significant, one of three possibilities has occurred: (1) the mean of hybrid A really is larger than that of hybrid B, and a correct decision has been made; (2) the means of hybrids A and B are really equal, and a Type I statistical error has been made (that is, the means were declared to be unequal when they were actually equal); or (3) the mean of hybrid B is really larger than that of hybrid A, and a reverse decision or Type III statistical error has been made (that is, the mean of A was declared to be greater than that of B, when the reverse is true).

When no significant difference is found between two hybrids, one of two possibilities has occurred: (1) the means are really equal and a correct decision has been made; or (2) the means are really different and a Type II statistical error has been made (that is, the means were declared to be equal when they really are different). In a study of the frequencies of occurrence of these three types of statistical errors and their relative seriousness, Carmer² found strong arguments for

² Carmer, S. G. "Optimal Significance Levels for Application of the Least Significant Difference in Crop Performance Trials." *Crop Science* 16:95-99. 1976.

an optimal significance level in the range $\alpha = 0.20$ to 0.40 , where α is the Type I statistical error rate for comparisons between means which are really equal. Herein, values of $\alpha = 0.10$ and 0.30 are used in computing the L.S.D. 10- and 30-percent levels shown in the tables. L.S.D. 10 and L.S.D. 30 are not calculated when the overall F test of differences among entries is not significant at the 5 percent level.

Growing Conditions at 1978 Test Fields (Tables 1 and 2)

Extreme Northern Illinois: Woodstock. This test field represents the cool, humid area of northeastern Illinois. The test plot was on land operated by the Hughes Farms and Seed Company, Robert and Earl Hughes, Jr., cooperators. The soil is Proctor silt loam: a fertile, deep, well-drained, dark prairie soil. Planting was completed May 11. The growing season was good with more than adequate rainfall throughout.

Northern Illinois: DeKalb. This test was at the University of Illinois Northern Illinois Research Center, southwest of DeKalb. R. R. Bell is the field manager, and D. L. Mulvaney is in charge of research at the Center. The soil is Flanagan silt loam: a dark-brown, adequately drained soil of high fertility. Planting was completed May 3. The growing season was very good.

West North-Central Illinois: Galesburg-Wataga. This test was located on the Robson Farms, operated by John Robson. The test field is a highly fertile, heavy-

Table 1. — General Information: Illinois Hybrid Corn Tests, 1978

Field, county, location, and number of entries	Date planted	Date harvested	Aver- age yield	Grain mois- ture	Erect plants	Average popula- tion
40-inch rows, 20,000 plants per acre			<i>bu./A.</i>	<i>perct.</i>	<i>perct.</i>	<i>per acre</i>
Woodstock: McHenry, Ex. N, 96....	May 11	Oct. 25	126	22.0	99	18,313
30-inch rows, 18,000 plants per acre						
Brownstown: Fayette, S, 54.....	May 31	Oct. 11-12	83	26.2	94	17,623
Carbondale: Jackson, Ex. S, 30.....	May 10	Oct. 4	64	18.4	99	17,649
30-inch rows, 20,000 plants per acre						
DeKalb: DeKalb, N, 78.....	May 3	Oct. 23	149	21.2	96	19,208
Galesburg: Knox, WNC, 71.....	May 3	Oct. 5-6	158	25.2	94	19,524
Urbana: Champaign, EC, 97.....	April 28	Sept. 28-29	145	25.7	70	19,842
Greenfield: Macoupin, WSC, 47.....	May 1	Oct. 30	104	16.7	93	18,557
30-inch rows, 22,000 plants per acre						
Brownstown: Fayette, S, 96.....	May 31	Oct. 11-12	106	25.3	93	20,755
Carbondale: Jackson, Ex. S, 80.....	May 10	Oct. 4	71	18.2	99	20,846
Dixon Springs: Pope, Ex. S, 54.....	May 9	Oct. 2-3	80	23.2	98	21,559
30-inch rows, 24,000 plants per acre						
DeKalb: DeKalb, N, 145.....	May 3	Oct. 23	155	21.7	97	22,660
Galesburg: Knox, WNC, 127.....	May 3	Oct. 5-6	157	25.4	96	21,773
Elwood: Will, ENC, 109.....	May 4	Oct. 9	116	20.9	96	22,539
Macomb: McDonough, WC, 90....	May 2	Oct. 27	134	19.0	95	17,933
Hartsburg: Logan, C, 132.....	June 6	Oct. 31	92	20.7	96	21,072
Urbana: Champaign, EC, 180.....	April 28	Sept. 28-29	153	25.0	82	22,224
Greenfield: Macoupin, WSC, 98....	May 1	Oct. 30	111	16.7	94	21,642
30-inch rows, 28,000 plants per acre						
Dixon Springs: Pope, Ex. S, 81....	May 9	Oct. 2-3	127	22.1	96	26,137



textured, Sable silty clay loam. The trial was planted May 3. Cold wet weather shortly after planting resulted in poor emergence. Seedling loss due to black cutworm damage further reduced stands. The remainder of the season was very favorable.

East North-Central Illinois: Elwood. This test was conducted at the Northeastern Illinois Agronomy Research Center in Will County. Dale Harshbarger is the field manager, and D. L. Mulvaney is in charge of research at the Center. The test was on Elliott silt loam. The field was planted May 4. Cold and wet conditions soon after emergence slowed early growth. Less than adequate rainfall prevailed throughout most of the remaining season.

West-Central Illinois: Macomb. This test was located at the Agricultural Experimental Station of Western Illinois University at Macomb in McDonough County. The cooperating agronomists at the Macomb field are Frank Gardner and Gordon Roscamp. The tests were conducted on an Ipava soil. The field was planted May 2. Wet and cold weather at the time of planting resulted in poor emergence and ineffective weed control. Black cutworms and corn borers damaged the tests even further. The growing season was fair with periods of inadequate rainfall.

Central Illinois: Hartsburg. This test was located in Logan County on the Hartsburg Agronomy Research Field. L. V. Boone is in charge of research. The soil type is Hartsburg silty loam. The field was planted June 5. An otherwise good growing season was marred by late planting.

East-Central Illinois: Urbana. This test was located on the University of Illinois South Farm in Champaign County. M. G. Oldham is the farm manager.

Table 2. — Growing Season Rainfall

Field	April	May	June	July	August
Woodstock.....	4.00	4.11	6.85	8.34	3.40
DeKalb.....	4.31	4.35	4.72	5.54	3.10
Galesburg.....	5.79	4.88	4.55	4.84	2.37
Elwood.....	4.56	3.31	8.20	2.21	1.11
Macomb.....	4.89	7.14	3.36	3.27	2.42
Hartsburg.....	3.34	5.44	2.70	5.29	3.64
Urbana.....	2.62	4.38	1.96	5.53	5.77
Greenfield.....	3.28	7.09	2.47	3.62	1.72
Brownstown.....	2.83	4.56	4.01	2.97	3.34
Carbondale.....	3.26	1.75	1.74	2.37	8.09
Dixon Springs.....	2.97	2.21	2.38	1.32	6.81

Fields on which the test plots were grown are level, heavy-textured, Drummer silty clay loam. The trials were planted April 28. Growing conditions were good; however, corn borer infestations and stalk rot resulted in reduced stalk strength and lodging. Thus considerable yield losses occurred in some hybrids at harvest.

West South-Central Illinois: Greenfield. This test represents the moderately poorly drained soils of western south-central Illinois. The soil is a Herrick silt loam. The plot was located between Palmyra and Greenfield in Macoupin County on land operated by Jack Ross. The trials were planted May 1. Cold and wet weather after planting resulted in reduced stands. Corn borer and grasshopper infestations caused considerable mid-season damage. The mid to late growing season was good.

Southern Illinois: Brownstown. This test was located at the University of Illinois Brownstown Experimental Field in Fayette County. Jack Biggs is the field manager and Frank Zajicek is in charge of research. The soil is Cisne silt loam: a poorly drained, gray, prairie soil with a well-developed claypan. Wet field conditions in May delayed planting until May 31. There was inadequate rainfall throughout most of the growing season. Considerable corn borer damage was noted late in the season, but a timely harvest prevented any substantial yield losses.

Extreme Southern Illinois Upland: Carbondale. The test at Carbondale represents the upland area in southern Illinois. The test was located on a field adjoining the Southern Illinois University Agronomy Research Center. Jim Hubbard and George Kapusta were the cooperating agronomists. The soil type is a Weir silt loam, which is a shallow, silty loam over claypan. Planting was completed May 10. The early growing season was good, but near drought conditions prevailed throughout the remainder of the season.

Extreme Southern Illinois Bottmmland: Dixon Springs. This test was located at the University's Dixon Springs Agricultural Center in Pope County, with George McKibben cooperating. The test plot is located on Sharon silt loam: a light-colored, moderately well-drained, medium-textured bottomland soil. The planting was made on May 9. A good early growing season was offset by dry conditions the remainder of the growing season.

Sources of Seed

- ACCO Hybrids, ACCO Seed Co., Box 9, Belmond, IA 50421
 ADI Hybrids, ADI Distributors, Inc., Carmel, IN 46032
 Ag Seeds Hybrids, Ag Seeds, Inc., Box 316, Carthage, IL 62321
 Ainsworth Hybrids, Ainsworth Seed Co., Mason City, IA 62664
 Americana Hybrids, Americana Seeds, Inc., Box 275, Bowen, IL 62316
 Anderson Hybrids, The Anderson's, P.O. Box 119, Maumee, OH 43537
 Asgrow Hybrids, Asgrow Seed Co., P.O. Box 1059, Des Moines, IA 50053
 Blaney Hybrids, Blaney Farms, Inc., R.R. 4, Madison, WI 53711
 Bo-Jac Hybrids, Bo-Jac Hybrid Corn Co., R.R. 2, Mount Pulaski, IL 62548
 Burrus Hybrids, Burrus Seed Farms, Arcenzyville, IL 62611
 Cargill Hybrids, Cargill Seeds, P.O. Box 9300, Minneapolis, MN 55440
 C.F.S. Hybrids, Custom Farm Seed, Box 160, Momence, IL 60954
 Cornelius Hybrids, Cornelius Seed Corn Co., R.R. 1, Bellevue, IA 52031
 Corn King Hybrids, Malcolm H. Grieve, Pierson, IA 51048
 Dairyland Hybrids, Dairyland Seed, Inc., Box 432, Kewaskum, WI 53040
 DeKalb Hybrids, DeKalb Ag Research, Inc., DeKalb, IL 60115
 Dennis Hybrids, Dennis Hybrid Corp., Windfall, IN 46076
 Dockendorff Hybrids, Dockendorff Hybrids, Inc., Danville, IL 52623
 FS Hybrids, FS Services, Inc., Bloomington, IL 61701
 Federal Hybrids, Federal Hybrids, Marion, IA 52302
 Frey Hybrids, Frey Hybrid Corn Co., Inc., Gilman, IL 60938
 Funk's Hybrids, Funk Seeds International, Inc., Bloomington, IL 61701
 Golden Harvest Hybrids, Golden Harvest Seeds, Inc., Clinton, IL 61727
 Golden Harvest Hybrids, Golden Harvest Seeds, Inc., Eldred, IL 62027
 Goldtag Hybrids, Ferry-Morse Seed Co., Box 24, Geneseo, IL 61254
 Griffith Hybrids, Griffith Seed Co., McNab, IL 61335
 Gutwein Hybrids, Fred Gutwein & Sons, Inc., Francesville, IN 47946
 Hoblit Hybrids, Hoblit Seed Co., Atlanta, IL 61723
 Hughes Hybrids, Hughes Hybrids, Inc., Woodstock, IL 60098
 Jones Hybrids, Jones Farm Store, Ridgway, IL 62979
 Kaltenberg Hybrids, Kaltenberg Seed Farm, R.R. 2, Waunakee, WI 53597
 Landers Hybrids, Landers Seed Co., Box 120, Sullivan, IL 61951
 Leader Hybrids, Leader Seed Corn, R.R. 3, Celina, OH 45822
 Lewis Hybrids, Lewis Seeds, Inc., Box 36, Ursa, IL 62376
 Lynks Hybrids, Lynks Hybrids, Box 637, Marshalltown, IA 50158
 M.C.A. Hybrids, M.C.A. Hybrids, 207 Woodworth St., La porte, IN 43650
 McAllister Hybrids, McAllister Seed Farms, Mount Pleasant, IA 52641
 McCurdy Hybrids, McCurdy Seed Co., Fremont, IA 52561
 Migro Hybrids, Midwest Seed Growers Assn., Inc., Mitchell, IN 47446
 Muncy Chief Hybrids, Muncy Chief Hybrids, Muncy, PA 17756
 Noble Hybrids, Noble Bros., Gibson City, IL 60936
 Northrup-King Hybrids, Northrup, King Co., Box 959, Minneapolis, MN 55440
 O's Gold Hybrids, O's Gold Seed Co., Inc., Parkersburg, IA 50665
 P.A.G. Hybrids, P.A.G. Seeds, P.O. Box 9480, Minneapolis, MN 55440
 Pfister Hybrids, Pfister Hybrid Corn Co., El Paso, IL 61738
 Pioneer Hybrids, Pioneer Hi-Bred International, Inc., Princeton, IL 61356
 Pocklington Hybrids, Pocklington Seed Co., R.R. 2, Girard, IL 62640
 Prairie Stream Hybrids, Prairie Stream Farms, Inc., R.R. 3, Frankfort, IN 46041
 Premier Hybrids, Premier Hybrids, Inc., Box 223X, Action, IN 46259
 Pride Hybrids, Pride Co., Inc., Glen Haven, WI 53810
 Princeton Hybrids, Princeton Farms, Box 319, Princeton, IN 47570
 R.B.A. Hybrids, R.B.A., Inc., Olivia, MN 56277
 Renk Hybrids, Renk Seed Co., Inc., R.R. 2, Sun Prairie, WI 53590
 Ring Around Hybrids, Ring Around Products, Inc., P.O. Box 589, Montgomery, AL 36101
 Seagull Hybrids, Rothermel Seed Co., Box 182, West Liberty, IA 52776
 Seedkem Hybrids, Seedkem, Inc., Greensburg, IN 47240
 Sieben Hybrids, Sieben Hybrids, Geneseo, IL 61254
 Sohigro Hybrids, Vistron Corporation, Box 628, Lima, OH 45802
 Stewart Hybrids, Stewart Hybrids, Inc., Princeville, IL 61559
 Stone Hybrids, Stone Seed Farms, R.R. 6, Springfield, IL 62701
 Sturdy Grow Hybrids, Sturdy Grow Hybrids, Inc., Box 94, Arcola, IL 61910
 Super-Crost Hybrids, Edw. J. Funk & Sons, Inc., Box 67, Kentland, IN 47951
 Taylor-Evans Hybrids, Taylor-Evans Seed Co., Box 68, Tulia, TX 79088
 Todd Hybrids, Todd Hybrid Corn Co., Inc., Burlington, IN 46915
 Tracy Hybrids, Tracy & Son Farms, Inc., R.R. 1, Janesville, WI 53545
 Trisler Hybrids, Trisler Seed Farms, Inc., Fairmount, IL 61841
 Trojan Hybrids, Pfizer Genetics, Inc., Box 33, Mason City, IL 62664
 U.S.S. Hybrids, U.S.S. Agri-Chemicals, P.O. Box 1685, Atlanta, GA 30301
 Voris Hybrids, Voris Seeds, Inc., Windfall, IN 46076
 Whisnand Hybrids, Whisnand Hybrid Corn Co., R.R. 1, Arcola, IL 61910
 Wyffels Hybrids, Wyffels Hybrids, Inc., Box 246, Atkinson, IL 61235
 Zimmerman Hybrids, Zimmerman Hybrids, Inc., Box 275B, Evansville, IN 47712

Table 3.—Extreme Northern Illinois: Woodstock (Planted at 20,000 plants per acre in 40-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	PLANTS /ACRE
ACCO UC 3301.....	164	21.9	100	18498	144	23.8	99	19737	121	19.3	93	17684
ACCO UC 3301A.....	130	22.7	98	18827								
ACCO UC 4201.....	141	22.3	100	19886								
ADI 197.....	114	23.6	99	17559	112	25.7	98	20139				
ADI 232.....	143	19.1	99	18389	112	20.3	98	19564				
ADI 315.....	129	24.3	99	18495	125	27.7	97	19375				
ADI 323.....	114	21.6	99	17963								
ASGROW RX2345.....	115	21.2	99	18039	123	22.4	97	19369	94	18.5	73	17139
ASGROW RX2445.....	113	21.9	100	19243								
ASGROW RX60.....	146	20.4	99	19600	134	22.1	99	19889				
ASGROW RX61A.....	117	21.5	99	19457								
BLANEY B606.....	121	22.7	100	17536	126	26.1	99	19432				
BLANEY B703.....	116	22.8	100	19572	136	26.1	99	19716				
BLANEY B705.....	116	23.5	99	19190	117	27.5	99	19717				
BLANEY B805.....	145	25.2	99	16630	143	27.8	98	19962				
CARGILL 430.....	133	20.7	99	18178								
CARGILL 838.....	158	20.3	99	19462	117	20.8	97	19478				
CORN KING 1122.....	128	21.8	100	19449	126	24.6	97	19814	121	18.7	96	18751
DAIRYLAND DX1007.....	107	23.8	100	17483								
DAIRYLAND DX1C08.....	121	21.9	99	18243					114	18.0	87	18699
DAIRYLAND DX1C10X.....	121	23.4	99	17165								
DEKALB XL 25*.....	119	21.9	99	19447	108	23.0	98	19972				
FS 204.....	106	20.7	99	18395								
FS 222.....	146	22.8	100	18580	122	24.2	98	19490	121	19.7	93	18803
FS 242.....	140	22.1	99	17539	136	23.7	96	19642	124	20.1	94	17467
FS 444A.....	108	21.4	99	18280								
FS 444.....	123	23.0	99	18976	125	24.1	99	19312	115	19.3	97	16057
FUNKS G-4141*.....	112	19.9	99	16915	110	22.0	99	19848	108	17.3	91	18415
FUNKS G-4224.....	117	20.0	99	17526								
FUNKS G-4321A.....	139	20.6	99	19331	147	23.9	98	19999	130	19.5	94	18806
FUNKS G-4323.....	119	21.3	99	19906								
FUNKS G-4430.....	110	21.7	99	18756	123	25.9	99	19989				
FUNKS G-4444*.....	145	21.8	99	18511					126	20.8	93	19586
GOLD TAG 2060.....	126	22.1	99	19219								
GOLD TAG 770.....	138	22.7	98	19196	119	24.8	99	20035	109	18.0	86	18629
HUGHES SLX-19*.....	103	20.3	99	18338	123	23.4	100	19729	120	19.7	97	18295
HUGHES 3304.....	115	19.3	99	16610	119	20.6	98	19743	118	18.2	88	16945
KALTENBERG KY 58.....	139	20.2	99	19348								
KALTENBERG KY 68.....	116	20.1	100	17657	134	24.4	97	19916	86	20.4	95	9804
KALTENBERG KY 76.....	134	25.2	99	19622					121	25.4	91	15168
LYNKS LX4120.....	115	22.0	99	18541	124	24.0	99	19604				
LYNKS LX4220.....	127	22.1	100	18836								
MCCURDY MSX44A.....	124	20.3	99	18980	138	23.1	99	19713	123	20.1	90	18872
MCCURDY MSX46.....	105	22.6	99	19084	148	22.2	99	19998	110	18.8	87	18906
MCCURDY 77-48.....	137	22.3	100	15279								
MCCURDY 77-49.....	137	21.6	99	17592								
MIGRO M-EXP 7110.....	128	27.3	99	17996								
MIGRO M-0301.....	113	23.4	99	19266	116	23.8	97	19909				
MIGRO M-0505.....	144	23.7	99	18981	146	28.9	99	19957	139	22.3	96	18480
MIGRO M-2018 X.....	106	23.0	99	17597	126	25.1	98	19728				
MIGRO M-2022 X.....	144	21.2	99	19778	133	23.0	100	17527				
NORTHRUP-KING PX37.....	89	21.6	99	15628								
NORTHRUP-KING PX45.....	141	22.1	99	19748								
NORTHRUP-KING PY49.....	124	21.4	99	19296								
O'S GOLD SX1020.....	113	21.3	98	17205								
O'S GOLD SX949.....	122	19.5	99	17874	124	21.3	99	19929				
PFISTER 21A.....	118	22.2	100	18364	129	24.3	99	20031				
PFISTER 21.....	123	21.7	99	17890	131	23.6	98	19852	132	18.9	91	19113
PFISTER 23.....	138	22.1	99	16281	128	24.7	98	19999				
PFISTER 30.....	123	20.6	100	18456								
PIONEER 3780*.....	123	20.6	99	18610	113	23.5	98	19749	119	21.5	98	19549
PIONEER 3780B*.....	125	21.5	100	17515								
PRIDE 4417.....	101	21.2	100	16688								
PRIDE 4488.....	131	22.2	100	17358	112	22.7	98	19657				
PRIDE 5578.....	122	20.6	98	19253	112	23.6	100	19402				

Table 3.—Woodstock, continued

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	#ERECT PLANTS /ACRE	YIELD BU/A	MOIST- URE %	#ERECT PLANTS /ACRE	YIELD BU/A	MOIST- URE %	#ERECT PLANTS /ACRE
PRIIDE 5589.....	135	22.1	99	19669					
P.A.G. SX 189.....	131	20.6	99	18143					
P.A.G. SX 397*.....	122	22.2	100	18157					
BENK RK40.....	132	21.5	100	17901					
BENK RK44.....	140	19.9	100	19481	146	25.0	97	19494	122
BENK RK66E.....	138	21.1	99	18306					
BENK RK66.....	106	22.7	99	19022	121	25.2	99	19399	108
BENK RK77.....	124	25.2	99	15299	140	29.3	99	19597	18.6
SEAGULL SX 12.....	130	22.4	99	18221					
SEAGULL SX 20AA.....	126	23.8	99	18968	124	26.4	99	19986	122
SEAGULL SX 33.....	148	23.6	99	19792	124	26.4	100	19730	140
STEWART SX1734.....	125	22.0	100	17925					
STEWART SX6834.....	122	23.4	99	18729					
SUPER-CROST 1950.....	118	20.3	99	17393					
SUPER-CROST 2350.....	156	21.0	99	19080	127	21.8	100	19946	129
SUPER-CROST 2470.....	126	21.4	99	17589	125	23.1	99	19560	113
SUPER-CROST 2880.....	122	23.7	99	16553					
SUPER-CROST 3585.....	127	22.8	99	16208					
TRACY T2055XI.....	126	20.1	99	19230					
TRACY T2095XI.....	122	21.3	99	18722					
TRACY T214SX.....	120	25.4	99	19133	134	27.0	99	19715	
TROJAN TXS 102.....	125	20.9	99	17046	133	24.4	96	19526	130
TROJAN TXS 105A.....	132	20.5	100	18794	127	23.0	100	19534	18.6
U.S.S. 0010.....	138	23.1	99	18516	109	23.4	98	19898	70
U.S.S. 0011.....	138	20.3	100	18248	129	23.9	95	19550	129
U.S.S. 0555A.....	115	26.9	99	18218	132	26.7	97	19799	123
WYPPELS W-18.....	131	19.3	99	18976	129	20.5	98	20079	20.9
WYPPELS W-22.....	124	20.8	100	17934					
WYPPELS W-26.....	122	21.5	99	19527	122	25.2	99	19685	22.6
WYPPELS X-82.....	126	24.7	99	18492					
AVERAGE OF 1978 ENTRIES.....	126	22.0	99	18313					
L.S.D. 10% LEVEL.....	25	1.8	..	..			
L.S.D. 30% LEVEL.....	15	1.1	..	..			
C.V.	14	6.3	0.6	8					

Table 4.—Northern Illinois: DeKalb (planted at 20,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS /ACRE
ACCO UC 7601.....	177	24.6	99	18977				94	25.8
ACCO UC 8201.....	124	23.8	97	19897				95	20000
AG SEEDS AXS 104.....	139	21.4	100	20355	156	18.8	80	19555	
ASGROW RX2445.....	140	21.4	97	19607					
ASGROW RX60.....	155	18.2	97	19679					
ASGBOW RX61A.....	140	20.7	97	20446					
BLANEY B606.....	148	20.0	100	19741	127	18.3	83	19000	107
BLANEY B703.....	146	21.1	98	19265	101	20.2	79	19888	22.8
BLANEY B705.....	140	20.9	93	19670	151	20.6	89	19888	97
BLANEY B805.....	164	23.7	97	20014	156	21.1	83	20000	131
CARGILL 430.....	151	18.8	92	19282					
CARGILL 830.....	129	18.9	94	19327	114	19.5	78	19222	
CORN KING 1235.....	168	20.7	98	19806	141	19.5	87	19666	
DAIRYLAND DX1007.....	128	20.7	98	19617					126
DAIRYLAND DX1008.....	159	19.2	86	19366					23.4
DAIRYLAND DX1010X.....	140	21.8	98	19693					100
DAIRYLAND DX1016.....	161	23.4	93	19165					19892
FS 242.....	137	22.7	97	18317					
FS 444A.....	155	20.3	96	19839					
FS 444.....	131	19.9	97	16929	121	20.2	87	19777	119
FS 452.....	135	22.9	97	19207	121	21.1	75	19777	117
FS 466.....	155	21.3	98	19795	129	19.9	67	20000	121
GOLD TAG 2060.....	158	19.5	89	19686					26.4
GOLD TAG 770.....	167	19.6	90	19043	137	18.8	86	20000	110
HUGHES SLX-30B.....	137	20.2	96	19806					85
HUGHES SLX-39.....	165	24.2	97	18702	158	21.6	80	19888	128
KALTENBERG KK 58.....	149	19.8	82	19753	138	19.5	64	20000	100
KALTENBERG KK 68.....	152	19.8	98	19292	120	18.3	74	20000	97
KALTENBERG KK 76.....	163	23.5	98	19342	153	21.9	81	20000	108
M CALLISTER SX7402C.....	152	20.8	97	20122					99
M CALLISTER SX7402D.....	98	21.7	96	18107					20000
M CALLISTER SX7805.....	139	20.0	97	19705					
M CALLISTER SX7806.....	135	22.3	96	19238					
MIGRO M-EXP 7110.....	130	24.3	97	19655					
MIGRO M-J301.....	157	20.0	95	17553	153	19.3	67	20000	
MIGRO M-0505.....	174	24.4	98	20454	133	21.9	91	19777	102
MIGRO M-2018 X.....	151	20.1	98	19109	154	19.3	77	20000	97
MIGRO M-2022 X.....	165	20.4	97	18015	136	19.5	78	20000	
MUNCY-CHIEF H764.....	164	22.4	94	19001	143	22.1	69	19555	
MUNCY-CHIEF SX662.....	156	22.2	100	18576	128	21.3	78	20000	
MUNCY-CHIEF SX776.....	155	23.0	96	19789					
MUNCY-CHIEF SX777.....	131	21.6	98	19231	108	20.3	80	19333	
MUNCY-CHIEF SX878.....	150	23.9	95	20073	111	23.5	77	19111	
NOBLE NB 2391.....	138	21.6	97	19005					
NORTHRUP-KING PX45.....	141	19.3	100	19321					
NORTHRUP-KING PX49.....	151	19.6	95	19634					
NORTHRUP-KING PX603.....	129	21.8	100	19864					
NCBTHRUP-KING EX69.....	160	21.6	97	17988					
O'S GOLD SX1111.....	138	19.9	100	19338	146	19.4	77	19333	
O'S GOLD SX5500AB.....	167	22.2	98	19918					
PFISTER 21A.....	130	21.5	90	19636	121	20.0	78	20000	112
PFISTER 21.....	170	19.9	91	15882	116	19.3	85	20000	125
PFISTER 23.....	157	20.0	95	19059	139	19.8	83	19777	134
PFISTER 30.....	130	21.3	97	18296					23.7
FOCKLINGTON P-4341.....	170	23.4	98	20049					92
P.A.G. SX 189.....	161	19.5	94	18005					18602
BENK RK40.....	172	22.0	100	19147					19354
BENK BK44.....	148	20.1	95	17756	154	19.6	78	19777	109
BENK BK66E.....	131	19.4	96	18559					19354
BENK RK66.....	142	20.8	96	19281	113	19.6	92	19333	95
BENK RK77.....	161	23.6	100	19705	124	21.3	66	19111	115
SEAGULL SX 12.....	132	20.7	99	19875					17849
SEAGULL SX 20AA.....	152	21.4	97	19293	135	18.6	83	19888	114
SEAGULL SX 33.....	155	21.3	97	19773	137	20.8	73	19888	116
SUPER-CROST 2350.....	136	19.1	97	18946	130	18.1	86	19888	108
SUPER-CROST 2470.....	148	19.8	94	19257	116	19.3	88	19888	112
SUPER-CROST 2880.....	168	22.8	97	18425					25.5
SUPER-CROST 3585.....	156	20.1	94	19449					98
SUPER-CROST 4242.....	142	22.1	99	18865	149	21.1	88	19777	121
SUPER-CROST 4350.....	137	22.7	100	19572	109	21.7	65	19777	85
TRACY T205SX1.....	158	19.6	93	17799					
TRACY T209SX1.....	147	18.6	96	19499					
TRACY T214SX.....	152	23.8	98	19385	162	22.0	81	18666	
TROJAN T 1008.....	163	19.5	84	19894					
U.S.S. 0010.....	144	21.0	100	19533	137	19.8	84	20000	
U.S.S. 0011.....	137	19.0	96	18987	129	19.7	57	18888	
U.S.S. 1010.....	150	21.8	95	19221	97	21.3	78	19777	
VORIS V 2461.....	151	21.4	97	18704					
AVERAGE OF 1978 ENTRIES.....	149	21.2	96	19208					
L.S.D. 10% LEVEL.....	..	1.6	..	..			
L.S.D. 30% LEVEL.....	..	1.0	..	..			
C.V.	16	5.7	5	6					

Table 4a. — Northern Illinois: DeKalb, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
ACCO UC 6601.....	168	23.3	95	22628	161	20.7	90	24000	123	24.3	82	23222
ACCO UC 7951.....	168	24.4	95	22857	164	21.4	95	23542				
ADI 315.....	158	22.9	98	22857	141	22.3	98	23314				
ALI 323.....	165	21.6	100	20114								
ALI 325.....	159	21.1	97	23657								
ALI 555.....	152	23.3	98	22514	185	22.3	100	21942				
ASGROW BX2445.....	159	21.0	96	23428					114	21.7	90	23637
ASGROW RX60.....	152	19.8	94	24000	182	19.6	99	21485				
ASGROW BX61A.....	146	20.6	98	23542								
BLANEY B606.....	153	20.7	98	18285	146	20.2	95	22971	110	27.4	94	23343
BLANEY B703.....	129	20.7	97	22628	154	21.0	97	21257				
BLANEY B705.....	168	21.1	100	22628	172	21.9	100	24000				
BLANEY B805.....	173	24.1	96	21028	168	21.7	95	22971	140	27.1	94	23694
BO-JAC X144.....	159	20.1	97	23200								
BO-JAC X172.....	171	22.3	99	23885	169	20.1	93	23542				
BO-JAC X28.....	149	20.8	95	23085	157	19.9	93	24000				
BO-JAC X304.....	132	23.2	100	23428								
BO-JAC X307.....	128	21.0	96	22742								
BO-JAC X347.....	157	20.5	96	22400	169	23.5	97	22742				
BO-JAC X36.....	169	23.2	97	23314	161	22.5	95	21828	115	21.0	75	22979
BO-JAC X37.....	147	20.7	97	21028	153	21.8	98	23200				
BO-JAC X39.....	181	23.1	99	24000	154	22.3	91	24000				
BO-JAC X52A.....	139	24.0	97	23085	198	23.2	94	24000	116	25.9	91	23194
CARGILL 838.....	156	19.9	90	23085	143	18.5	92	24000				
CARGILL 863.....	159	19.1	97	23885								
CFS 1450.....	152	19.4	98	21371								
CFS 222.....	137	22.8	97	23428								
CFS W128.....	161	22.3	98	22400								
CORNELLIUS C395X.....	147	22.4	97	20800								
CORNELLIUS C475X.....	160	20.9	99	22057	169	20.2	97	23885				
DEKALB XL 25*.....	141	21.3	100	22057	118	19.6	98	23200				
DEKALB XL 43*.....	156	22.3	100	19685	169	21.6	99	23657	129	21.3	71	22598
DEKALB XL 54*.....	162	22.8	95	23771	156	20.8	91	22857	136	23.0	75	23556
DENNIS DS36.....	150	22.6	99	21257								
DENNIS DS6.....	144	21.1	100	19657								
FEDERAL PX 6.....	175	20.8	97	21142	175	20.2	97	24000	115	21.5	95	23706
FS 242.....	164	21.1	94	20914	164	20.1	85	23314	124	19.2	87	23006
FS 444A.....	154	21.6	96	22285								
FS 444*.....	171	21.8	100	21828	157	19.8	97	23085	123	20.9	97	23759
FS 466.....	158	21.7	96	23200	153	21.0	90	23771	145	22.7	82	22510
FUNKS G-4321A.....	158	20.1	97	22857	153	20.3	99	22285	132	23.1	90	23840
FUNKS G-4323.....	149	21.9	96	23200								
FUNKS G-4430*.....	163	20.4	98	24000	150	21.5	98	23885				
FUNKS G-4507.....	142	23.3	98	24000	126	24.7	98	22857	143	22.8	95	22760
FUNKS G-4520*.....	181	23.4	99	22628	187	22.3	97	23428	145	24.3	90	23318
GRIFFITH 7125*.....	173	25.2	96	23314								
GUTWEIN 2250.....	151	21.2	95	23542								
GUTWEIN 2340.....	178	21.5	97	24000								
GUTWEIN 46.....	164	20.6	98	23885	133	21.0	98	23314	139	20.5	97	23723
HUGHES SLX-19.....	172	17.8	95	24000	142	19.0	99	23885				
HUGHES SLX-30A.....	165	20.4	91	22971	161	19.3	96	22285	115	22.1	100	22663
HUGHES SLX-39.....	139	22.5	95	22057	135	21.5	90	22971	127	26.1	97	23766
KALTENBERG KX 58.....	176	21.4	91	21714	144	21.5	98	24000				
KALTENBERG KX 66.....	135	20.0	97	23428	145	19.7	96	22628				
KALTENBERG KX 76.....	155	21.8	96	23428	140	22.2	93	23542				
LEADER SX500.....	135	19.6	91	22742								
LEADER SX510.....	153	19.5	99	23314								
LEADER SX610.....	165	23.8	100	24000								
LEWIS X14B.....	140	21.4	94	22971	171	21.7	99	22857				
LEWIS X25B.....	162	22.1	98	22400	170	22.0	100	23428				
LEWIS X60B.....	142	22.5	98	23085								
LEWIS X61B.....	168	24.2	97	23885								
LYNKS LX4120.....	149	19.8	94	19542								
LYNKS LX4220.....	154	20.5	96	22285								
LYNKS LX4305.....	167	23.3	100	21485								
M CALLISTER SX7300A.....	149	23.3	99	23657								
M CALLISTER SX7300B.....	176	24.7	96	22971								
M CALLISTER SX7402C.....	137	23.8	100	21142								
M CALLISTER SX7402D.....	128	22.4	96	22857								
M CALLISTER SX7406.....	164	22.8	95	22971	198	23.2	97	23657				
M CALLISTER SX7607.....	142	21.0	95	23085	170	21.4	94	22857				
M CALLISTER SX7705.....	182	22.2	98	22971	160	20.6	98	24000				
M CALLISTER SX7804.....	135	21.8	98	24000								
MCCURDY MSX42.....	170	21.8	99	21600	148	19.6	90	23771				
MCCURDY MSX46.....	152	22.0	98	22742	147	20.6	96	23542	141	21.4	96	22231

Table 4a. — DeKalb, Increased Planting Rate, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS				
	YIELD 80/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD 80/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	
MCCURDY MSX60.....	153	22.0	96	22742						132	24.0	95	24015
MCCURDY 76-96.....	160	19.7	92	23428									
MCCURDY 76-97.....	151	23.8	97	21257									
MIGRO M-EXP 7110.....	119	26.5	100	24000									
MIGRO M-0301.....	154	21.7	100	23428	155	20.3	98	24000	95	24.5	85	23822	
MIGRO M-0505.....	133	22.7	100	22171	148	22.4	97	22514	129	25.3	99	23754	
MIGRO M-2018 X.....	170	21.9	97	23428	149	20.1	94	24000					
MIGRO M-2022 X.....	159	19.7	96	23200	167	19.4	100	23200					
NOBLE NB 2461.....	153	22.8	98	24000	144	20.9	96	23428					
NORTHRUP-KING PX45.....	188	20.2	98	24000									
NORTHRUP-KING PX49.....	140	19.6	94	21600									
NORTHRUP-KING PX603.....	172	21.5	96	21600									
NORTHRUP-KING PX69.....	160	21.0	96	21942									
NORTHRUP-KING PX74.....	168	23.6	97	22514	150	21.6	96	23542					
O'S GOLD SX1101.....	145	18.2	96	24000									
O'S GOLD SX1111.....	153	20.9	98	21485	165	21.1	98	23200					
PIONEER 3780*.....	160	20.5	98	22514	139	18.9	98	22971	128	22.3	92	22705	
POCKLINGTON F-443.....	165	22.4	98	23085									
PRIDE R-549.....	158	20.2	96	19771									
PRIDE R-689.....	160	21.7	98	22514									
PRIDE 5578.....	145	19.7	89	23771	156	19.5	97	22400					
PRIDE 5589.....	159	20.6	89	24000									
PRIDE 6678.....	172	21.7	95	22400	167	22.2	100	22171					
P.A.G. SX 189.....	170	20.5	99	22514									
P.A.G. SX 249.....	149	20.6	98	22171									
RENK BK40.....	160	19.8	93	23314									
RENK BK44.....	178	20.5	99	22057	120	19.5	80	23885	125	23.7	89	23764	
RENK BK66E.....	131	20.5	96	19085									
RENK BK66.....	122	22.2	100	20914	146	19.9	97	22971	120	21.0	91	22543	
RENK BK77.....	170	23.4	94	22400	168	23.2	97	23314	136	25.4	99	22610	
SEAGULL SX 12.....	134	19.7	97	23200									
SEAGULL SX 33.....	153	22.0	94	22285	170	20.9	94	22971	129	24.5	80	23342	
SEAGULL SX 40.....	149	22.8	95	21942	156	20.8	97	23085	134	27.3	97	22721	
SEAGULL SX 55.....	193	24.2	96	22400	185	23.2	98	23314					
STEWART SX54.....	139	20.4	91	22514	153	23.9	91	21942					
STEWART SX6834.....	144	22.2	99	23657	129	20.4	96	22742	113	21.2	79	22618	
STEWART S349.....	157	23.5	98	22400	161	22.8	98	23428					
SUPER-CROST 2350.....	164	20.0	98	24000	167	20.0	96	24000	106	21.8	94	22532	
SUPER-CROST 2470.....	167	20.0	98	22971	143	20.4	90	22971	97	18.7	95	23280	
SUPER-CROST 2880.....	144	24.1	100	21600									
SUPER-CROST 3585.....	136	20.1	96	20000									
SUPER-CROST 4242.....	169	20.8	93	22857	148	21.2	94	23885	139	24.9	90	23219	
SUPER-CROST 4350.....	152	22.1	100	23314	127	23.2	98	23428					
TAYLOR-EVANS T.E. 6925.....	150	20.4	97	23542									
TAYLOR-EVANS T.E. 6968.....	167	24.3	97	23085	156	23.0	95	23428	128	25.5	96	23666	
TAYLOR-EVANS T.E. 6992.....	146	22.8	96	24000	137	21.0	97	23085	123	27.5	94	22648	
TAYLOR-EVANS T.E. 6995-A.....	150	25.7	99	23200									
TAYLOR-EVANS T.E. 6995.....	155	22.4	97	23314	175	23.1	98	24000	128	29.1	99	23230	
TODE M48.....	151	20.2	99	23771									
TODD M49.....	140	21.0	98	20914									
TRACY T205SX1.....	160	21.0	96	23542									
TRACY T209SX1.....	151	19.6	96	22628									
TRACY T214SX.....	143	24.1	98	24000	183	23.1	100	21600					
TROJAN TXS 108A.....	147	21.3	98	23085	139	21.1	100	23771	71	25.0	97	23823	
TROJAN TXS 115A.....	151	23.7	98	22171	174	22.0	96	21028	128	24.0	92	23106	
TROJAN T 1008.....	124	19.9	88	22742									
TROJAN T 1021.....	155	20.5	100	23314									
TROJAN T 1108.....	139	21.4	85	23428									
TROJAN T 1120.....	156	23.2	100	23314	146	24.3	98	24000					
U.S.S. 0010.....	154	22.3	100	23771	152	21.8	95	23200	132	21.1	88	23459	
U.S.S. 0555A.....	126	22.1	100	22742	167	20.4	83	23428					
U.S.S. 1010.....	165	23.4	99	20685	135	22.3	98	21371	148	30.4	97	21589	
VORIS V 2472.....	179	22.5	97	23200	160	20.3	95	23428					
VORIS V 2492.....	133	22.8	95	22400									
VORIS V 2532.....	144	23.3	100	22971	151	21.2	92	23885	140	24.9	99	23097	
WIPPELS W-22.....	145	20.6	94	24000									
WIPPELS W-26.....	156	20.8	97	22857					109	23.2	92	23288	
WIPPELS W-50.....	166	23.4	100	22742					117	22.4	65	23921	
WIPPELS W-60.....	140	22.7	100	22971					104	25.2	98	23206	
WIPPELS W-82.....	188	21.6	96	22742									
AVERAGE OF 1978 ENTRIES.....	155	21.7	97	22660									
L.S.D. 10% LEVEL.....	..	1.6	4	2183									
L.S.D. 30% LEVEL.....	..	1.0	2	1375									
C.V.	14	5.4	3	7									

Table 5. — East North-Central Illinois: Elwood (Planted at 24,000 plants per acre
in 30-inch rows)

BAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS /ACRE
			/ACRE			/ACRE			
AG SEEDS AXS 104.....	135	19.0	99	22444	123	19.1	99	23428	
AINSWORTH X-512.....	93	21.1	95	23969	126	20.6	98	23885	
AINSWORTH X-603.....	115	20.1	98	23528	119	19.7	94	20800	
ANDERSON SSL,SC.....	108	21.4	98	22987					
ANDERSON SSM,SC.....	98	19.8	96	21588	113	19.4	99	19657	
ANDERSON SST,SC.....	121	25.2	94	23452					
ANDERSON SSW,SC.....	124	20.4	97	23519					
ANDERSON SSX,SC.....	112	19.2	97	22969	125	18.5	99	21714	110 23.7 88 21714
BO-JAC X145.....	114	17.3	96	23089	118	18.8	98	21485	
BO-JAC X28.....	75	19.3	97	23668	140	19.7	95	21028	
BO-JAC X304.....	125	20.6	98	22767					
BO-JAC X307.....	114	20.5	99	23181					
BO-JAC X347.....	115	19.3	97	23566	125	20.8	99	23428	
BO-JAC X37.....	125	19.6	86	22878	117	18.8	98	22514	
BO-JAC X39.....	108	21.4	93	23208	115	20.3	100	24000	
BO-JAC X402.....	114	20.8	98	23647					
BO-JAC X52A.....	139	23.3	98	22601					115 21.5 96 23885
BO-JAC X56A.....	100	23.0	99	22872					
CARGILL 838.....	120	19.5	78	22299					
CARGILL 920.....	111	23.8	98	23783	124	19.3	99	23428	123 21.5 95 23200
DEKALB XL 25*.....	100	22.2	98	20913					
DEKALB XL 54*.....	125	23.3	95	22744	124	20.0	97	22057	
DEKALB XL 64*.....	108	22.7	95	23053	125	21.3	98	23771	119 21.4 86 24000
DEKALB XL 64A*.....	126	21.4	96	22758	141	20.4	99	23657	117 19.9 90 23771
DENNIS DS36.....	117	23.1	98	23673					
DENNIS DS37E.....	128	23.5	96	22296	110	21.4	96	21257	112 20.4 90 23885
DENNIS DS6.....	102	21.3	97	19448	127	20.1	98	17600	
FS 242*.....	137	19.6	96	22934	131	19.5	100	22857	110 22.3 93 23542
FS 444A.....	102	17.5	98	23225					
FS 444*.....	146	19.3	99	22630	105	19.9	98	20685	102 19.4 96 23314
FS 466.....	110	21.2	98	22640	114	20.2	100	21600	138 20.8 87 23885
FUNKS G-4321A.....	125	18.2	94	22866	139	18.4	99	19085	90 24.5 90 23200
FUNKS G-4444A*.....	119	19.1	91	22497					
FUNKS G-4507*.....	114	22.4	98	22307	122	20.3	95	22057	112 22.8 97 23542
FUNKS G-4520.....	121	22.3	99	22867	139	20.0	100	22400	94 22.0 95 23085
HUGHES SLX-19.....	125	18.2	97	22755	123	19.3	97	21257	
HUGHES SLX-30A.....	110	19.4	98	21581	120	18.4	97	21257	123 23.3 91 23428
LEADER SX500.....	95	19.6	95	22184					
LEADER SX510.....	102	19.3	97	23185					
LEADER SX610.....	122	22.6	98	22848					
LYNKS LX4220.....	122	20.1	94	18179	105	19.7	100	22971	
LYNKS LX4305.....	135	20.9	97	22290	106	21.0	96	23314	
MCALLISTER SX7300A.....	122	23.4	97	23323					
MCALLISTER SX7300B.....	116	24.2	99	22504					
MCALLISTER SX7402C.....	96	19.1	96	22046					
MCALLISTER SX7402D.....	96	20.7	93	20343					
MCALLISTER SX7402.....	118	19.4	97	21962	118	18.7	98	22628	
MCALLISTER SX7406.....	136	21.9	96	20568	138	21.9	98	22514	115 24.5 98 23314
MCALLISTER SX7806.....	115	20.2	86	23629					
MCALLISTER SX7812.....	113	22.3	98	21581					
MCCURDY MSX37.....	119	19.9	93	23109					
MCCURDY MSX44A.....	130	19.0	87	23684	108	20.7	91	20342	129 20.1 97 22742
MCCURDY MSX46.....	114	19.2	99	22260	105	18.5	98	21942	126 22.0 86 23200
MCCURDY MSX60.....	122	20.4	97	23204					
MCCURDY MSX84.....	114	25.3	99	22270	111	21.2	99	23200	132 21.4 95 23085

Table 5. — Elwood, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS	
			PLANTS	/ACRE			PLANTS	/ACRE			PLANTS	/ACRE
MCCURDY 76-93.....	110	21.3	91	22996								
MIGRO M-0105.....	107	18.7	93	23429								
MIGRO M-0301.....	150	19.9	85	24011	101	18.6	99	20114	115	19.8	91	23885
MIGRO M-0505.....	114	23.1	98	23636	110	19.6	98	23885	141	17.5	98	24000
MIGRO M-2018 X.....	110	19.5	95	21496	130	19.0	97	20342				
MIGRO M-2022 X.....	123	19.9	98	22617	146	19.9	99	23542				
NORTHRUP-KING PX603.....	99	22.3	99	22872								
NORTHRUP-KING PX69.....	123	20.3	98	20562								
NORTHRUP-KING PX74.....	122	23.1	96	20887	89	19.8	99	22742				
O'S GOLD SX1101.....	131	18.7	98	23306								
O'S GOLD SX2199.....	113	19.8	93	23312								
O'S GOLD SX5500A*.....	132	21.8	98	22189	114	21.0	98	22628	113	21.5	91	23428
PFISTER 30.....	113	19.5	95	21275								
PFISTER 65.....	124	22.1	99	22375	137	20.9	99	23885				
PFISTER 68.....	128	20.3	93	22602	123	20.1	100	21028				
PFISTER 75.....	128	23.2	96	22181	126	20.2	95	22057				
PIONEER 3780*.....	114	20.4	97	21125	113	18.2	100	23542	111	18.8	91	23314
PRIDE R-689.....	102	22.1	98	23770								
PRIDE 6678.....	117	21.6	97	22882	127	20.2	98	16000				
PRIDE 7715.....	102	21.1	99	22407	132	19.6	98	23200	107	21.8	90	23771
P.A.G. SX 189.....	126	19.1	95	23528								
P.A.G. SX 249.....	112	20.1	95	22865								
P.A.G. SX 397.....	126	20.5	96	23316	117	18.9	98	23314	131	23.4	97	24000
SEED-KEM SK 38.....	109	19.1	96	22162	104	19.3	100	18742				
SEED-KEM SK 56.....	92	21.9	99	23768	99	20.1	99	21942				
SEED-KEM SK 76.....	111	23.5	98	21946	135	20.1	98	23885				
SUPER-CROST 2350.....	110	18.8	94	21926	105	19.1	97	20342				
SUPER-CROST 2470.....	126	18.4	97	22157								
SUPER-CROST 2880.....	114	22.5	98	21161								
SUPER-CROST 3585.....	106	20.7	96	23647								
SUPER-CROST 4242.....	114	21.5	96	23641	124	20.3	99	23200	112	22.9	97	23771
SUPER-CROST 4350.....	102	21.2	96	22171	85	19.4	100	23314	118	22.6	98	23771
SUPER-CROST 5440.....	120	23.2	98	21921	102	19.7	99	22628	130	23.2	92	23428
TAYLOR-EVANS T.E. 6968.....	112	23.3	97	23860	132	20.8	98	19771	104	22.3	98	23885
TAYLOR-EVANS T.E. 6980.....	110	25.0	98	22064	122	21.0	100	21142	109	21.5	94	23885
TAYLOR-EVANS T.E. 6992.....	118	21.5	97	22506	113	21.0	99	22400	111	22.1	92	23200
TAYLOR-EVANS T.E. 6995-A.....	105	22.6	93	22060								
TAYLOR-EVANS T.E. 6995.....	112	21.6	96	23553	125	20.1	98	19428	113	22.7	100	22742
TRACY T205SX1.....	115	17.8	98	21722								
TRACY T209SX1.....	119	18.7	95	23213								
TRACY T214SX.....	120	24.4	96	21043	109	20.8	100	16457				
TROJAN TXS 105A.....	116	20.6	96	22624	107	18.8	99	23200	111	21.4	95	23314
TROJAN TXS 108A.....	99	20.4	100	22399	102	19.1	100	20914	118	22.3	94	23314
TROJAN TXS 115A.....	119	23.4	97	19547	83	21.9	98	22742	122	21.8	100	23428
TROJAN T 1008.....	121	18.5	97	22163								
TROJAN T 1108.....	109	20.2	96	22753								
VORIS V 2472.....	131	18.6	96	21599								
VORIS V 2492.....	100	21.6	98	23060								
VORIS V 2532.....	129	22.2	95	21475	117	20.0	97	22514	129	20.0	85	23428
VORIS V 2542.....	147	22.4	99	23197					98	19.8	99	23542
WIFFELS W-26.....	131	20.7	92	22554	128	18.9	99	21600				
WIFFELS W-50.....	124	20.7	99	23087								
WIFFELS W-60.....	118	22.7	95	22951	113	19.8	99	22514				
WIFFELS X-82.....	121	20.9	98	23304								
AVERAGE OF 1978 ENTRIES.....	116	20.9	96	22539								
L.S.D. 10% LEVEL.....	22	1.8	5	1802								
L.S.D. 30% LEVEL.....	14	1.1	3	1134								
C.V.	14	6.4	4	5								

Table 6.— West North-Central Illinois: Galesburg (Planted at 20,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS
ACCO UC 7951.....	153	26.4	94	19666					
ACCO UC 8201.....	152	27.2	97	20000					
AG SEEDS AXS 115.....	145	25.5	92	19444					
AG SEEDS AXS 120.....	169	28.1	89	20000					
AINSWORTH X-514.....	144	25.3	97	20000				182	21.9
AINSWORTH X-516.....	145	25.9	97	19666	153	20.4	97	20014	209
AMERICAN 3200.....	156	25.5	95	19000	141	19.4	97	19984	23.6
AMERICAN 3500A.....	171	24.0	94	19111	165	19.6	95	19874	94
AMERICAN 4500.....	156	26.1	96	20000					19995
AMERICAN 4700.....	167	27.2	95	19222	125	20.0	98	20014	
AMERICANA 921C.....	160	23.4	94	20000					
ANDERSON SSL,SC.....	184	25.7	98	19222					
ANDERSON SSM,SC.....	139	22.5	94	19666					
ANDERSON SST,SC.....	164	25.5	93	19777					
ANDERSON SSW,SC.....	151	26.8	86	19777					
ANDERSON SSX,SC.....	149	22.4	93	18000					
ASGBROW BX88.....	160	25.4	99	19777					
ASGBROW RX90.....	157	25.7	94	19888					
BO-JAC X507.....	145	26.4	95	20000					
BO-JAC X52A.....	167	25.9	97	19333	143	20.2	92	19908	189
BO-JAC X56A.....	146	25.9	97	19000					
BO-JAC X56.....	152	26.7	90	17888	166	19.5	95	19771	179
BO-JAC X690.....	157	28.3	97	20000	166	20.1	98	19990	23.1
BO-JAC X701.....	186	26.7	97	19555					96
CARGILL 924.....	156	23.2	91	19777					20002
COBN KING 1248.....	184	26.5	93	19555					
FS 444.....	145	21.8	95	19000	135	18.4	97	19016	158
FS 466.....	176	23.6	94	20000				137	19.8
FS 642.....	161	25.3	96	19888	147	19.4	99	19667	172
FS 680.....	164	25.5	95	19222	145	19.7	96	19556	174
GOLD TAG 4020.....	170	26.8	94	19666					
GOLD TAG 880.....	156	25.7	95	19555	159	19.6	95	19995	183
LEWIS X248.....	191	25.4	96	19444	154	19.4	98	19895	179
LEWIS X29B.....	126	23.8	97	19222				23.5	99
LEWIS X61B.....	191	25.7	95	18555				24.8	97
LEWIS X62B.....	157	26.4	97	19888	148	19.6	95	19774	191
M CALLISTER SX7300A.....	141	25.2	93	19333					25.0
M CALLISTER SX7300B.....	156	27.3	97	19333	173	21.8	96	19591	95
M CALLISTER SX7300C.....	145	26.1	93	19888					19667
M CALLISTER SX7300D.....	180	25.6	95	19444					
M CALLISTER SX7607.....	136	23.1	84	19555					
M CALLISTER SX7617.....	143	24.5	90	18222	169	20.4	97	19780	
M CALLISTER SX7705.....	169	23.1	92	19888					
MCCURDY MS177.....	174	27.5	95	19666					
MCCURDY MS84.....	156	25.8	97	20000	184	19.3	93	20013	170
MIGRO M-EXP 7110.....	155	26.5	90	19777					
MIGRO M-0301.....	143	20.9	90	20000					
MIGRO M-0505.....	150	27.0	98	19888					
MIGRO M-2018 X.....	157	22.3	96	19555					
MIGRO M-2022 X.....	149	21.5	97	20000					
NOBLE BB 2551.....	166	26.1	95	19333					
O'S GOLD SX3400.....	166	26.1	92	19777	183	20.2	94	19976	180
O'S GOLD SX5500A.....	176	25.3	94	19222	155	19.9	94	20010	167
O'S GOLD SX5500AB.....	170	24.7	94	20000				23.4	96
PFISTER 65.....	161	25.4	92	20000	146	19.8	96	20000	19591
PFISTER 68.....	153	25.9	93	18222	168	20.5	96	19660	164
PFISTER 75.....	166	26.2	95	19222	157	19.4	92	19563	170
POCKLINGTON F-633.....	145	26.0	94	20000				23.8	97
P.A.G. SX 333.....	164	26.7	96	19888					19996
SEAGULL SX 40.....	178	25.1	91	19444	157	19.9	97	19779	162
SEAGULL SX 55.....	149	24.4	95	19666	163	20.4	93	19440	173
SUPER-CROST 2350.....	153	21.4	98	19888				23.6	93
SUPER-CROST 2470.....	143	22.7	92	19666					19998
SUPER-CROST 2680.....	151	24.5	95	19888					
SUPER-CROST 3585.....	150	22.6	91	18222					
SUPER-CROST 4242.....	160	22.0	93	19555					
SUPER-CROST 4350.....	151	25.9	97	19555	137	18.6	98	19983	168
SUPER-CROST 5440.....	157	25.5	95	19777	125	18.9	95	20017	168
TROJAN TYS 115A.....	159	25.9	87	19222				20.5	93
U.S.S. 0555A.....	134	24.9	94	19555	147	19.0	96	19980	168
U.S.S. 1010.....	155	25.9	98	19333	132	19.7	93	19110	
AVERAGE OF 1978 ENTRIES.....	158	25.2	94	19524					
L.S.D. 10% LEVEL.....	..	1.6	..	996					
L.S.D. 30% LEVEL.....	..	1.0	..	627					
C.V. ..	12	4.6	4	3					

Table 6a. — West North-Central Illinois: Galesburg, Increased Planting Rate (Planted at 24,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS /ACRE
ACCO AB41554.....	188	24.4	97	23736					
ACCO UC 7601.....	156	25.4	96	22938					
ADI 555.....	166	26.4	87	22031	157	19.8	95	23428	
ADI 575.....	134	24.5	96	22431	142	19.4	95	23542	
ADI 626.....	163	27.0	97	21607	160	20.5	98	23085	
ADI 677.....	174	27.2	95	21990					
AINSWORTH X-605.....	131	25.3	93	20555					
AINSWORTH X-617.....	182	26.6	94	22533	181	20.9	99	24000	
ANDERSON SSL,SC.....	152	25.0	93	22999					
ANDERSON SSM,SC.....	172	23.5	87	20738					
ANDERSON SST,SC.....	149	27.9	96	20530					
ANDERSON SSW,SC.....	166	28.2	91	21951					
ANDERSON SSX,SC.....	155	21.7	92	21961					
BO-JAC X304.....	139	25.5	99	21194					
BO-JAC X347.....	145	22.4	90	21127	157	19.9	93	22400	
BO-JAC X39.....	163	24.6	94	22150	195	19.7	95	23542	
BO-JAC X402.....	144	23.6	100	22890					
BO-JAC X507.....	154	26.7	96	20532					
BO-JAC X52A.....	159	26.2	91	21147	145	20.5	91	24000	226
BO-JAC X56B.....	154	27.3	91	23922	157	19.9	95	23657	23.7
BO-JAC X56.....	176	27.2	94	20445	140	19.7	97	23771	92
BO-JAC X7L.....	136	27.8	99	20963	145	21.0	96	24000	23.8
BO-JAC X701.....	169	28.2	98	21137					91
CARGILL 920.....	147	24.5	95	23805	166	20.1	95	23771	20.8
CARGILL 924.....	157	24.1	94	21985					91
CARGILL 949.....	141	26.9	97	22040	176	19.4	94	24000	23.4
DEKALB XL 25*	120	24.3	100	21314					96
DEKALB XL 53*	137	23.6	97	21715	144	18.5	98	17257	
DEKALB XL 54*	167	24.1	96	20119	141	19.5	97	22400	158
DEKALB XL 72AA	174	26.7	99	22477	141	19.3	93	22857	21.9
DEKALB XL 72AA									79
DENNIS DS36.....	174	26.2	97	22086					
DENNIS DS37.....	180	25.9	95	22668					
DENNIS DS6.....	144	22.2	97	18771					
DOCKENDORFF 7100.....	165	21.1	99	22565	141	18.2	97	23314	
DOCKENDORFF 7700.....	164	25.6	95	23336	173	20.1	97	23657	
DOCKENDORFF 7900.....	169	24.3	98	21128					
FEDERAL FX 39.....	162	26.4	98	19824	142	20.1	93	21714	
FS 444.....	147	24.4	98	22049	130	17.6	96	23542	
FS 642.....	154	25.3	95	23629	160	19.6	95	24000	185
FS 680.....	183	26.9	95	21180	158	20.0	98	22057	22.3
FS 680.....									99
FS 682.....	156	27.6	93	20214					22514
FUNKS G-4321A.....	162	21.5	91	22640	123	18.1	93	24000	141
FUNKS G-4507*	136	26.3	96	23622	119	19.7	96	23428	173
FUNKS G-4520.....	174	26.1	94	23319	152	20.0	95	23314	175
FUNKS G-4606.....	173	27.8	96	21267					23657
GOLD TAG 4020.....	156	28.6	95	21653					
GCLD TAG 770*	144	22.1	92	19888	144	18.2	95	24000	144
GOLD TAG 880.....	173	26.0	95	21575	164	20.3	93	24000	205
GOBLIT XR454.....	162	28.4	97	20306					22.1
LANDERS 9908.....	162	21.6	93	21344					92
LANDERS 9911.....	159	26.1	98	19793	142	19.5	97	22857	22.0
LANDERS 9915.....	178	26.0	97	23342	168	19.9	94	22742	169
LEWIS X24B.....	163	26.1	98	22670					86
LEWIS X61B.....	155	26.1	97	21834					22514
LEWIS X62B.....	143	25.9	98	20213	168	19.4	98	22971	25.4
LEWIS X73B.....	198	26.3	95	24190					93
LEWIS X74B.....	168	29.2	95	19931					22971
LINKS LX4330.....	167	27.9	99	20358					
LINKS LX4510.....	150	28.2	98	18646					
LINKS LX33.....	150	28.2	95	21943					
M CALLISTER SX7300B.....	172	27.5	96	23787					
M CALLISTER SX7300C.....	159	25.6	94	23901					
M CALLISTER SX7300D.....	162	28.6	99	21860					
M CALLISTER SX7300.....	171	26.0	96	22249	141	19.8	98	24000	182
M CALLISTER SX7406.....	159	25.0	96	17838	161	20.6	95	23314	23.1
M CALLISTER SX7617.....	148	27.1	98	21079	160	20.4	95	23542	100
M CALLISTER SX7805.....	144	23.6	96	20647					23314
M CALLISTER SX7806.....	150	23.7	92	22640					
MCCURDY MSX70.....	138	26.6	96	22430	155	20.3	92	23657	
MCCURDY MSX84A.....	164	28.1	97	22849					

Table 6a. — Galesburg, Increased Planting Rate, continued

BAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
MCCURDY MSX84.....	162	25.4	99	21280	155	19.7	97	24000	185
MIGRO M-EXP 7110.....	151	27.5	95	24014					23.5
MIGRO M-J301.....	155	22.7	89	23354	144	18.5	86	23771	141
MIGRO M-0505.....	165	25.8	99	23477	134	19.5	95	23885	187
MIGRO M-201d X.....	147	22.2	96	22924	130	18.2	96	23885	23.4
MIGRO M-2022 X.....	150	21.4	97	23976	164	19.3	100	23771	
NORTHEUP-KING PX603.....	143	25.1	98	22115					
NC&THRUP-KING PX69.....	185	24.5	100	20450					
NORTHEUP-KING PX74.....	165	26.8	98	22055	162	20.2	94	24000	
NORTHRUP-KING PX79.....	143	26.0	98	23287	125	20.0	95	23885	
O'S GOLD SX34CO.....	170	26.8	95	22954					
O'S GOLD SX-5COA.....	159	25.4	97	21526					
O'S GOLD SX5500AB.....	178	26.7	98	23782					
PIONEER 3541*.....	165	24.5	100	23739					
PIONEER 3780*.....	142	22.8	97	18526	144	17.5	97	24000	152
PEAIRIE STREAM GOLDEN CROSS SX33.....	158	22.2	96	24067					
PEAIRIE STREAM GOLDEN CROSS SX44.....	149	23.5	94	23020					
PRIDE K-689.....	160	25.8	94	21184					
PRIDE 6678.....	162	26.1	97	21304	150	19.0	98	23428	
PRIDE 7715.....	161	27.3	97	22583	159	19.8	97	23657	203
P.R.A.G. SX 249.....	175	22.8	95	23843					
P.R.A.G. SX 333.....	171	25.2	98	23372					
P.R.A.G. SX 397.....	143	21.8	92	21749	152	18.5	98	23428	
P.R.A.G. 314.....	170	24.5	96	23013	178	19.8	96	23771	194
SEAGULL SX 13.....	157	23.1	96	22153	165	19.8	96	23657	153
SEAGULL SX 40.....	170	24.1	97	23066	156	20.2	98	23314	178
SEAGULL SX 55.....	174	24.8	98	21146	166	20.8	98	23771	153
SEED-KEM SK 56.....	137	24.9	98	20954	118	18.9	94	23428	22.3
SEED-KEM SK 76.....	159	26.8	97	19730	160	20.4	96	23885	139
SIEBEN 46XS*.....	157	26.1	97	20514					88
STEWART SX6173.....	157	28.1	92	23359					23542
STEWART SX6473.....	161	26.0	95	21377					22628
STEWART SX6873.....	162	27.5	95	21668	161	20.6	96	23085	182
STEWART SX6973.....	155	29.4	97	22041					
SUPER-CROST 2350.....	176	22.4	95	18414					
SUPER-CROST 2470.....	145	21.8	96	21118					
SUPER-CROST 2880.....	123	27.0	96	18403					
SUPER-CROST 3585.....	158	23.2	96	17765					
SUPER-CROST 4242.....	132	23.2	91	22259	146	18.8	95	23657	190
SUPER-CROST 4350.....	137	24.0	95	20731	119	19.4	93	22400	157
SUPER-CROST 5440.....	156	28.4	95	19513	134	19.9	99	23771	177
TAYLOR-EVANS T.E. 6925.....	129	24.4	94	18023					
TAYLOR-EVANS T.E. 6968.....	155	25.5	92	21052	163	20.6	92	23314	170
TAYLOR-EVANS T.E. 6980.....	145	29.4	94	22210	154	21.5	94	23314	166
TAYLOR-EVANS T.E. 6992.....	150	24.9	89	22745	137	19.7	98	23200	161
TAYLOR-EVANS T.E. 6995-A.....	130	26.4	97	23301					
TAYLOR-EVANS T.E. 6995.....	166	26.8	95	22102	137	20.0	95	23542	202
TRACY T209SXI.....	175	21.9	97	22308					
TRACY T214SX.....	176	27.1	97	18565	153	20.3	91	23428	
TRACY T315.....	160	23.4	98	20932					
TROJAN TXS 115A.....	145	25.7	97	19900	139	20.5	92	22857	174
TROJAN TXS 117A.....	124	22.3	94	23248	155	20.9	94	23771	183
TROJAN T 1108.....	152	23.3	93	23028					
U.S.S. 0010.....	148	23.5	94	22711	155	19.3	96	23771	
WYFFELS W-26*.....	149	21.3	94	22760	142	18.2	98	23085	145
WYFFELS W-50.....	148	25.4	97	20596	144	18.9	97	23428	186
WYFFELS W-60.....	164	25.8	95	21755	156	20.6	97	22171	169
AVERAGE OF 1978 ENTRIES.....	157	25.4	96	21773					
L.S.D. 10% LEVEL.....	27	1.8	4	2602					
L.S.D. 30% LEVEL.....	17	1.1	3	1639					
C.V.	13	5.2	3	8					

Table 7. — West-Central Illinois: Macomb (Planted at 24,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
ACCO UC 8201.....	131	19.3	96	20913					
AG SEEDS AXS 115.....	121	19.3	98	13294			125	19.8	94
AG SEEDS AXS 120.....	150	18.6	90	18115					22971
AINSWORTH X-3517.....	145	19.8	95	20255			129	20.0	91
AINSWORTH X-514.....	118	19.3	96	18009			131	20.0	94
AMERICANA 3200.....	152	18.7	96	18644	77	21.6	94	21122	
AMERICANA 3500A.....	127	18.9	93	15715	59	22.3	96	22015	
AMERICANA 4500.....	136	18.9	98	18433					
AMERICANA 4700.....	127	18.8	96	17654	62	24.5	95	23123	
AMERICANA 6700.....	121	21.8	95	18589	71	24.4	95	23244	
BO-JAC X507.....	103	19.3	94	21026					
BO-JAC X52A.....	123	19.3	92	17410	95	23.0	95	23147	144
BO-JAC X52B.....	138	17.9	97	20608	103	22.2	97	23916	
BO-JAC X56B.....	161	18.9	95	20017	92	24.0	95	20941	
BO-JAC X56.....	128	20.1	92	17108	82	23.2	95	23085	109
BO-JAC X7L.....	135	20.2	93	19065	99	23.5	95	17690	134
BO-JAC X701.....	145	21.4	92	18312					
BURRUS 8120*.....	125	19.2	93	17346					
CARGILL 920.....	131	17.9	96	20885	87	22.3	96	23113	102
CARGILL 924.....	138	18.0	97	20644					22857
CARGILL 949.....	122	19.9	99	17213	64	24.2	98	20218	104
DEKALB XL 75*.....	173	19.0	96	17425					23428
DENNIS DS31.....	153	17.9	96	17695	84	22.1	93	23497	147
DENNIS DS37E.....	143	19.0	96	14788					22400
DENNIS DS37.....	115	19.3	95	15994	94	23.4	95	22787	128
DENNIS DS47A.....	136	19.1	97	17855	85	21.9	95	18500	
DENNIS DS48.....	130	18.2	97	19952	67	22.9	96	23113	
DENNIS DS69.....	123	18.3	97	17150					22742
FS 444.....	120	18.6	99	16673					
FS 680.....	153	17.7	98	15951	103	23.1	94	20228	135
FS 682.....	105	16.9	95	18323					
FS 850*.....	123	21.8	90	17429	86	23.0	92	21873	124
FS 854.....	168	21.6	89	11988	109	23.8	92	21187	148
FUNKS G-4507*.....	126	17.6	98	19908	78	23.6	94	22310	108
FUNKS G-4520.....	173	18.8	96	17247	56	14.6	91	20533	117
FUNKS G-4606.....	160	19.4	98	21382					
BOBLIT KB454.....	135	19.6	95	17728					
LEWIS X14B.....	113	17.6	97	18849					
LEWIS X61B.....	118	20.2	98	21745					
LEWIS X62B.....	129	18.6	95	16710	80	22.4	95	19986	166
LEWIS X73B.....	151	19.6	96	20654				134	21.1
LEWIS X74B.....	148	21.3	98	17412					22514
LYNKS LX4330.....	130	19.3	97	15696					
LYNKS LX4510.....	100	20.6	97	16528					
LYNKS 7X33.....	127	19.0	97	15751					
MACALLISTER MX7817.....	156	20.2	95	18821					
MACALLISTER SX7300B.....	185	19.8	96	15158					
MACALLISTER SX7300C.....	111	18.5	95	17867					
MACALLISTER SX7406.....	115	16.9	96	17590	93	21.5	91	22521	
MACALLISTER SY7617.....	165	19.3	98	17527	79	23.2	96	22289	
MACALLISTER TX7816.....	135	18.4	97	17448					
MCCURDY MSX70.....	136	19.0	94	18908	67	22.8	93	23310	121
MCCURDY MSX77.....	164	19.5	96	18705					
MCCURDY MSX84A.....	164	19.1	99	18865	83	22.3	93	21111	
MCCURDY MSX84.....	105	18.7	99	16619	73	23.9	99	23532	134
NORTHRUP-KING PX675.....	129	18.8	96	16443	78	22.4	95	20619	
NORTHRUP-KING PX74.....	121	18.9	94	16623	62	24.3	94	21790	
NORTHRUP-KING PX76.....	126	17.1	95	18908	87	24.3	88	22566	
O'S GOLD SX3400.....	152	19.0	95	18202	94	23.3	95	19806	133
O'S GOLD SX5353.....	138	19.0	91	20511					23657
PIONEER 3334A*.....	139	20.3	97	18214					
PIONEER 3780*.....	109	16.7	99	17678					
ROCKLINGTON PX-8.....	141	20.3	92	16678					
ROCKLINGTON P-633.....	143	18.9	92	18034					
ROCKLINGTON P-6441.....	146	19.2	88	17915			123	19.6	95
									19885

Table 7. — Macomb, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS									
PRIDE 7715.....	127	17.9	95	20403	70	22.6	96	21374	128	19.4	98	23542
PRIDE 8824.....	134	18.9	94	18672	82	24.5	93	22746	114	19.4	93	21828
P.A.G. SX 313.....	143	18.1	96	19361								
P.A.G. SX 98*.....	164	20.8	97	20327								
P.A.G. 314.....	120	18.5	92	16356	76	22.2	96	22223	122	20.4	91	20914
SUPER-CROST 2880.....	127	18.5	94	17191								
SUPER-CROST 3585.....	100	16.6	95	17326								
SUPER-CROST 4242.....	128	18.0	95	17276								
SUPER-CROST 4350.....	127	19.7	97	15979	73	22.6	95	23348				
SUPER-CROST 5330.....	131	18.6	93	18637								
SUPER-CROST 5440.....	140	19.2	97	17577	75	23.1	94	23082	129	18.5	95	20571
SUPER-CROST 6800.....	112	20.9	96	15354								
TAYLOR-EVANS T.E. 6968.....	140	17.8	93	15722	65	23.8	92	21513	123	21.9	97	22285
TAYLOR-EVANS T.E. 6980.....	142	20.3	96	19367	87	24.2	96	22770	129	22.9	92	23657
TAYLOR-EVANS T.E. 6992.....	114	18.5	89	15925	60	22.2	92	23099	95	19.0	90	22857
TAYLOR-EVANS T.E. 6995-A.....	121	19.4	94	18167								
TAYLOR-EVANS T.E. 6995.....	135	19.4	92	19856	89	23.6	95	22133	135	21.6	94	23542
TROJAN TXS 115A.....	104	19.6	98	15870	80	23.8	96	23369	98	21.1	93	23542
TROJAN TXS 119.....	131	20.4	92	19268								
TROJAN T 1120.....	141	17.9	97	16630	68	22.7	96	23386				
U.S.S. 0010.....	114	17.4	94	20145	86	22.8	95	20155				
U.S.S. 1010.....	136	18.6	92	14949	71	22.0	95	22126	137	23.7	97	22400
WIFFELS W-26.....	124	17.8	94	18115								
WIFFELS W-50.....	151	18.8	98	19829								
WIFFELS W-60.....	149	19.2	92	18908								
AVERAGE OF 1978 ENTRIES.....	134	19.0	95	17933								
L.S.D. 10% LEVEL.....	27	1.4	4	3241								
L.S.D. 30% LEVEL.....	17	0.9	2	2040								
C.V.	15	5.6	3	13								

Table 8.—Central Illinois: Hartsburg (Planted at 24,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
ACCO UC 7951.....	98	23.5	98	21211								
AINSWORTH X-512.....	91	18.1	94	23470								
AINSWORTH X-516.....	106	20.6	97	20817								
AINSWORTH X-609.....	82	18.3	97	22304	122	21.8	99	22971				
AINSWORTH X-615.....	95	21.1	98	20952	114	21.1	100	21828				
AINSWORTH X-617.....	100	23.0	99	21666	133	21.8	99	23885				
AINSWORTH X-719.....	107	22.7	97	17277								
ANDERSON SSL,SC.....	110	20.7	99	22537	103	21.8	99	21942	161	20.8	100	23200
ANDERSON SSM,SC.....	71	17.4	92	19209								
ANDERSON SST,SC.....	93	24.3	96	22843	134	22.2	99	19542	151	21.0	100	23085
ANDERSON SSW,SC.....	102	22.7	97	22649								
ANDERSON SSX,SC.....	78	19.0	95	18786	75	20.2	99	23428	129	17.5	100	23200
ASGBOW BX88.....	75	20.5	97	19384								
ASGBOW RX90.....	104	19.3	99	22044	117	21.6	99	22628	156	20.3	100	22628
ASGBOW RX98.....	91	20.2	98	20752								
BO-JAC X304.....	95	18.9	95	21691								
BO-JAC X347.....	70	19.0	97	20621	121	21.0	99	24000				
BO-JAC X36.....	84	18.4	93	21967	134	21.5	100	22742				
BO-JAC X402.....	66	17.9	98	22880								
BO-JAC X507.....	89	19.3	94	22709								
BO-JAC X52A.....	94	21.6	99	20035	154	22.1	100	22971	162	21.8	100	22742
BO-JAC X56B.....	127	21.0	96	21992					135	20.3	98	23542
BO-JAC X56.....	96	21.1	95	19590	115	21.4	100	23314	169	20.5	98	22400
BO-JAC X701.....	87	20.9	96	20097								
BO-JAC X83.....	77	21.8	94	20472	129	22.5	99	23085	167	22.8	98	22171
CARGILL EXP262194.....	97	20.1	97	23925								
CARGILL 920*.....	92	21.8	98	18160	104	20.3	100	22628	115	17.7	100	22285
CARGILL 924.....	88	20.0	98	19273								
CARGILL 949.....	115	20.2	95	20414	101	20.8	98	22514	130	19.5	100	23542
DEKALB XL 64*.....	91	20.9	97	21631	124	23.0	100	23771	152	19.4	97	23771
DEKALE XL 72B*.....	100	22.6	95	22341	118	22.9	100	22057				
DENNIS DS31.....	96	20.6	95	22521	161	21.0	99	24000	160	25.2	100	23200
DENNIS DS37.....	107	21.3	96	20737	115	21.0	99	23657	154	20.0	100	23428
DENNIS DS39.....	105	21.7	97	19879	135	23.3	99	23314				
DENNIS DS47A.....	81	19.8	97	21249	111	20.9	99	18742				
DENNIS DS68.....	74	21.0	95	18766					166	20.0	100	24000
DENNIS DS69*.....	78	22.1	95	20718								
FREY FX30.....	103	19.1	96	23251								
FREY FX50.....	94	18.9	94	22276								
FREY FX65.....	85	22.5	93	21580								
FREY FX70.....	108	20.1	96	21855								
FREY F72.....	74	22.0	98	22613								
FREY F76.....	79	19.8	96	22816								
FS 444.....	100	19.0	97	20987	127	19.6	99	21714				
FS 642.....	89	20.2	96	22382	142	21.6	99	23428	164	21.0	100	23314
FS 680.....	105	21.2	95	16740	122	21.2	99	18514	148	19.3	100	21600
FS 682.....	119	21.8	97	20593								
FS 850.....	72	23.2	93	19516	102	22.5	99	24000	148	23.3	100	22400
FUNKS G-4507.....	106	20.2	97	21761	111	21.4	100	23314	111	19.0	97	23314
FUNKS G-4520.....	92	19.8	97	21494	137	21.5	99	23771	150	20.5	95	23771
FUNKS G-4606.....	104	20.9	94	21023								
GOLD TAG 4020.....	99	22.6	97	22952								
GOLD TAG 880.....	89	21.0	96	21040	76	21.8	99	22628	134	19.9	100	23542
GOLDEN HARVEST H2500*.....	113	19.8	97	20989	107	21.3	99	23428	148	20.7	100	23885
GUTWEIN 2446.....	85	17.8	99	19698								
GUTWEIN 62.....	100	19.7	98	19461	106	22.5	100	23657	142	20.0	100	23771
GUTWEIN 64.....	76	18.9	93	20389	139	21.4	99	22628	144	21.0	100	23085
HOBЛИT XB441.....	91	23.4	96	20186					164	21.1	95	22400
HOBЛИT XB454.....	99	20.7	98	21158								
LANDERS 9908.....	79	19.7	99	20187								
LANDERS 9911.....	88	21.0	94	20779	110	22.4	99	22400				
LANDERS 9913.....	70	18.7	97	21813	120	22.7	99	20457				
LANDERS 9915.....	89	20.5	96	19212	143	21.4	98	20571				
LEWIS X25B.....	80	21.3	96	20225								
LEWIS X29B.....	82	17.3	98	20697								
LEWIS X60B.....	79	21.8	98	19996								
LEWIS X73B.....	85	22.0	95	20428	135	23.0	99	19542				
LEWIS X74B.....	106	22.7	98	21342								
LEWIS X77B.....	89	22.0	98	20641	109	22.0	100	21485				
LYMKS LX4330.....	100	22.8	98	22510								

Table 8. — Hartsburg, continued

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A ACRE	MOIST- URE %	%ERECT PLANTS	YIELD BU/A ACRE	MOIST- URE %	%ERECT PLANTS
LYNKS LX4510.....	82	22.4	96	22825					
LYNKS 7X33.....	124	22.3	94	21748					
LYNKS 7X39.....	117	22.9	95	17842					
M CALLISTER MX7817.....	99	21.3	97	21647					
M CALLISTER SX7300B.....	96	20.3	95	21991					
M CALLISTER SY7617.....	104	21.3	96	22535	119	22.3	100	23085	
M CALLISTER SX7812.....	103	19.8	98	18257					
MCCURDY MSV65.....	91	20.5	97	20161					
MCCURDY MSX34A.....	102	21.1	97	19371	148	20.3	100	22857	127 21.3 100 23542
MCCURDY MSX84.....	85	20.0	96	21006	126	23.2	100	23314	138 19.9 98 22628
MIGRO M-EXP 7110.....	74	21.5	97	21756					
MIGRO M-0301.....	92	18.4	94	21131	103	19.9	98	23428	97 19.3 94 23885
MIGRO M-0505.....	111	19.6	96	22056	119	21.0	100	22628	143 21.8 100 23314
MIGRO M-0707.....	101	22.4	95	22504					
MIGRO M-2018 X.....	78	17.3	98	19513	119	20.2	98	22285	
MIGRO M-2022 X.....	87	19.4	93	22167	85	20.3	100	24000	
MIGRO M-6606.....	72	20.7	97	22779	129	22.4	99	23085	152 21.4 100 24000
NORTHUP-KING PX74.....	95	21.2	98	20680	119	21.6	99	23428	
NORTHUP-KING FX76.....	83	21.5	95	21574					
O'S GOLD SX5353.....	97	21.9	98	18107					
O'S GOLD SX5500A.....	111	19.9	97	21488	134	20.6	100	23428	144 22.4 99 23771
O'S GOLD SX5500B.....	98	20.4	98	20782	115	21.2	99	22628	
PFISTER 65.....	120	19.3	95	22656	161	21.7	100	24000	161 22.1 100 22971
PFISTER 68.....	103	19.6	94	18369	125	22.4	99	22628	148 21.4 95 23771
PFISTER 75.....	78	20.7	96	20711	100	20.8	99	20914	139 18.4 97 22057
PIONEER 3301A*.....	105	20.0	96	23117					
PIONEER 3334A*.....	92	20.4	97	22368	120	22.4	99	24000	
PIONEER 3780*.....	88	18.5	95	21645	76	22.3	99	23885	140 17.7 95 23085
PRIDE 7715.....	100	21.7	97	21134					
PRIDE 8824.....	86	19.9	96	21629					
P.A.G. SX 249.....	106	19.1	95	23150					
P.A.G. SX 333.....	87	20.9	98	19261					
P.A.G. SX 98*.....	96	23.7	97	21895	101	21.7	99	23657	
P.A.G. 314.....	103	20.5	97	19315	119	21.7	99	23200	174 21.0 100 23542
STURDY-GROW S/G 805A.....	99	22.6	99	18961	104	21.6	100	22514	
STURDY-GROW S/G 807.....	87	21.2	97	22996	104	22.4	99	21600	172 20.8 100 23657
STURDY-GROW S/G 847.....	75	21.6	98	20882					
SUPER-CROST 2880.....	99	19.6	95	23076					
SUPER-CROST 3585.....	98	19.2	92	22241					
SUPER-CROST 4242.....	100	20.6	95	20751	117	21.7	99	22971	
SUPER-CROST 4350.....	77	19.0	95	21274	73	22.3	99	24000	144 19.0 95 23314
SUPER-CROST 5330.....	77	21.3	98	23339					
SUPER-CROST 5440.....	90	21.4	98	21668	110	22.1	99	23657	162 22.3 98 23771
SUPER-CROST 6800.....	76	24.0	97	20999					
TAYLOR-EVANS T.E. 6995-A.....	86	21.8	97	23165					
TAYLOR-EVANS T.E. 6995.....	94	20.6	98	21016					
TRISLER T-2777.....	82	18.5	93	21468					
TRISLER T-290C.....	83	18.4	96	19163					
TRISLER T-337.....	84	22.2	95	22842					
TRISLER T-5150.....	75	18.4	96	20608	119	20.2	99	21371	136 18.8 97 22514
TRISLER T-545C.....	80	22.8	98	20587	122	21.7	99	22857	188 19.3 98 23771
TRISLER T-5470.....	87	21.2	94	17776					
TRISLER T-560C.....	86	21.6	95	23453					
TRISLER T-735C.....	84	18.9	94	20243	142	23.3	99	23657	160 22.0 100 23314
TRISLER T-7370.....	101	23.0	95	19970					
TROJAN TXS 114.....	100	22.2	94	22023	115	22.1	99	24000	179 21.6 97 22971
TROJAN TXS 115A.....	96	21.4	95	21406	83	21.3	99	22057	146 21.0 95 24000
TROJAN TXS 117A.....	67	19.2	91	21005	103	23.1	100	22057	135 23.0 100 23200
TROJAN T 1108.....	100	18.7	93	19570					
WYFFELS W-26.....	89	20.4	97	22620					
WYFFELS W-50.....	90	21.2	95	19876					
WYFFELS W-60.....	104	21.6	95	21222					
AVERAGE OF 1978 ENTRIES.....	92	20.7	96	21072					
L.S.D. 10% LEVEL.....	23	2.2	3	2694					
L.S.D. 30% LEVEL.....	14	1.4	2	1697					
C.V.	18	7.9	2	9					

Table 9. — East-Central Illinois: Urbana (Planted at 20,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS					1977 RESULTS					1976 RESULTS				
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE			
ACCO AB41560.....	178	29.3	80	19962	143	26.6	99	19666	215	28.6	84	20000			
ACCO UC 7951.....	173	25.7	74	19798											
ACCO UC 8951.....	165	28.0	78	19994	151	26.3	100	19777	186	25.5	94	19874			
AG SEEDS AXS 104.....	152	23.7	72	18963											
AG SEEDS AXS 115.....	156	25.6	65	19440											
AG SEEDS AXS 120.....	152	29.2	63	20003											
AINSWORTH X-620.....	129	25.3	90	20060	141	25.6	98	19222							
AINSWORTH X-719.....	153	27.2	77	20033											
ANDERSON SSL,SC.....	148	25.6	50	19945	149	24.3	100	19111	184	25.5	89	19875			
ANDERSON SSM,SC.....	112	22.4	85	20004											
ANDERSON SST,SC.....	140	30.2	66	20002	133	25.4	98	19555	181	24.3	92	19621			
ANDERSON SSW,SC.....	138	26.1	75	19865											
ANDERSON SSX,SC.....	122	22.8	65	19996	100	22.1	97	19444	154	21.5	97	18765			
ASGBROW RX88.....	159	25.9	93	18850											
ASGBROW RX90.....	151	25.3	67	19847	157	24.8	100	20000							
ASGBROW RX98.....	150	25.0	77	19956											
BO-JAC X507.....	132	26.6	41	19995											
BO-JAC X52A.....	143	26.2	78	20012											
BO-JAC X56.....	169	27.1	67	19990	149	24.5	99	20000	198	27.3	89	19630			
BO-JAC X69.....	172	27.1	82	19990					171	24.1	99	20000			
BO-JAC X701.....	127	29.7	64	20024	157	28.1	100	19666							
BO-JAC X83.....	149	27.2	88	20015	144	26.6	97	19888	190	27.2	94	19878			
CORN KING 1148.....	156	24.3	55	19980	140	23.8	100	18777	181	25.2	86	19999			
FS 444.....	153	21.6	76	20051	118	22.7	97	19222							
FS 642.....	158	24.2	87	19975	144	24.9	100	19555	195	27.5	88	20005			
FS 680.....	150	25.5	68	19993	144	24.7	100	19888	176	26.0	97	19993			
FS 682.....	138	28.3	83	19743											
FS 850.....	125	29.2	59	20002	146	26.6	99	19555	170	27.2	100	19510			
GOLD TAG 4020.....	144	27.8	58	20002											
GOLD TAG 880.....	147	26.7	81	19990	154	24.0	100	19777	200	24.6	90	19504			
GOLDEN HARVEST EXP517.....	136	22.9	59	20005											
GOLDEN HARVEST EXP582.....	136	23.8	79	19992											
GOLDEN HARVEST EXP747.....	144	26.9	94	19438											
GOLDEN HARVEST H-2577.....	194	26.3	91	16411	141	26.3	100	19444	197	26.6	92	19373			
LEWIS X61B.....	142	26.0	54	19938											
LEWIS X62B.....	154	24.8	60	19992	127	25.0	100	20000	188	27.7	85	19876			
LEWIS X73B.....	161	27.8	67	19981											
LEWIS X74B.....	130	26.3	56	19986											
LEWIS X77B.....	162	27.2	55	19669											
LEWIS X81B.....	162	27.8	59	19653	187	28.1	100	19666							
M CALLISTER SX6837.....	137	26.9	73	19762											
M CALLISTER SX7300B.....	158	25.9	70	19976											
M CALLISTER SX7300C.....	98	26.3	27	19295											
M CALLISTER SX7300.....	141	24.4	51	20043	141	24.4	98	19666							
M CALLISTER SX7402D.....	102	21.9	87	19873											
M CALLISTER SX7617.....	137	27.1	55	20004	140	25.7	99	19222							
MCCURDY MSX65.....	167	24.9	72	19966	159	26.3	98	19555	179	26.4	86	19634			
MCCURDY MSX77.....	149	27.5	75	20039	152	24.9	98	20000							
MCCURDY MSX86A.....	152	27.5	64	20022											
MCCURDY MSX87A.....	141	27.3	48	20031											
MIGRO M-EXP 7110.....	147	25.9	68	20008											
MIGRO M-0301.....	124	22.7	48	20029	131	22.5	97	20000	221	22.9	95	19145			
MIGRO M-0505.....	145	24.0	61	20002	166	25.1	98	19777	215	27.2	97	19878			
MIGRO M-0707.....	176	27.6	83	19938											
MIGRO M-2018 X.....	124	22.0	62	20007	124	23.2	99	19888							
MIGRO M-2022 X.....	131	22.1	71	20011	119	22.8	99	19888							
MUNCY-CHIEF B764.....	136	25.9	63	19016	129	25.9	100	19222	196	23.5	95	18394			
MUNCY-CHIEF SX662.....	140	24.6	60	19982	151	24.4	100	19222	191	24.5	87	20006			
MUNCY-CHIEF SX776.....	141	24.8	66	19985											
MUNCY-CHIEF SX777.....	129	24.9	79	20028	123	23.2	100	19888	168	24.4	93	20007			
MUNCY-CHIEF SX878.....	155	28.2	59	19943	134	26.5	100	19777	190	26.4	85	19509			
O'S GOLD SX5500A.....	128	25.5	72	19965	137	24.3	100	19333	198	24.9	98	20001			
O'S GOLD SX5500AB.....	186	26.6	68	18728											
PPISTER 30.....	126	23.1	74	20015											
PPISTER 65.....	165	27.3	92	19382	167	26.0	100	19888	173	25.4	86	19884			
PPISTER 68.....	131	25.1	64	19994	153	24.8	100	19555	205	25.4	83	19626			
PPISTER 75.....	149	25.7	69	20030	141	24.0	97	19888	185	25.9	82	20003			
POCKLINGTON PI-8.....	127	28.5	62	19986											
POCKLINGTON P-633.....	142	25.4	84	20026											
POCKLINGTON P-6441.....	126	27.8	68	20087											

Table 9. — Urbana, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS	
			PLANTS	/ACRE			PLANTS	/ACRE			PLANTS	/ACRE
POCKLINGTON P-7441.....	118	26.9	77	19769								
PRINCETON SX 480.....	158	23.6	78	19515	130	23.4	98	19888				
PRINCETON SX 840.....	177	26.8	76	19985	168	27.9	99	20000	178	30.7	87	19749
P.A.G. 314.....	168	24.5	62	18273	151	23.6	99	19666				
BING AROUND RA 1501.....	140	25.5	62	19891								
SUPER-CROST 2880.....	133	23.6	77	19982								
SUPER-CROST 3585.....	125	21.3	76	19990								
SUPER-CROST 4242.....	130	23.6	66	20039	132	23.5	100	20000				
SUPER-CROST 4250.....	127	23.0	83	20027	112	23.0	100	19888				
SUPER-CROST 5330.....	133	26.2	59	19998								
SUPER-CROST 5440.....	175	25.1	76	19741	136	24.2	100	20000				
SUPER-CROST 6800.....	151	26.3	77	19977								
TODD MX73A.....	159	25.3	73	19987								
TODD MX73.....	173	26.5	69	20017					163	23.7	87	18765
TRISLER T-290C.....	128	20.1	84	20027								
TRISLER T-337.....	109	26.7	71	20000								
TRISLER T-5450.....	122	25.3	55	20013	153	23.9	100	20000	195	27.9	98	19998
TRISLER T-547C.....	127	26.7	79	19202								
TRISLER T-7350.....	159	23.8	63	20009	148	25.5	99	20000	208	26.9	60	19997
TRISLER T-7370.....	163	26.4	62	20009								
TROJAN TXS 115A.....	140	25.8	56	20000								
U.S.S. 0555A.....	112	24.8	92	20017								
U.S.S. 1010.....	156	24.4	77	20055	132	24.1	99	19666				
VISTRON SOHIGRO 57.....	178	27.2	61	19998								
VISTRON SOHIGRO 68.....	139	27.1	77	19982								
VORIS V 2532.....	168	25.6	68	19982	140	25.0	98	20000				
VORIS V 2542.....	144	26.1	77	19973								
AVERAGE OF 1978 ENTRIES.....	145	25.7	70	19842								
L.S.D. 10% LEVEL.....	29	1.9	20	827								
L.S.D. 30% LEVEL.....	18	1.2	12	520								
C.V.	14	5.5	21	3								

Table 9a. — East-Central Illinois: Urbana, Increased Planting Rate (Planted at 24,000 plants per acre in 30-inch rows)

BAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
ACCO UC 7601.....	153	24.2	89	19125								
ACCO UC 8951.....	178	28.1	88	22375	146	28.6	99	23882	202	27.4	99	23906
ADI 315.....	151	25.6	83	23000	134	25.3	100	23764				
ADI 323.....	147	21.5	92	21625								
ADI 555.....	150	26.7	92	21750	132	25.4	100	23294				
ALI 626.....	155	26.7	70	23250	154	29.6	100	24000				
AINSWORTH X-516.....	188	24.1	90	22250	134	26.5	100	23058	212	24.6	96	23707
AINSWORTH X-617.....	161	27.7	85	22625	146	29.2	100	23411				
AMERICANA 320C.....	194	24.8	78	23000					201	23.4	98	23382
AMERICANA 3500A.....	122	23.6	60	22375								
AMERICANA 4500.....	150	25.1	65	22500								
AMERICANA 4700.....	128	26.8	75	21625								
AMERICANA 670C.....	165	27.0	87	21250								
ANDERSON SSL,SC.....	172	25.1	79	22000	130	26.4	99	24000	186	27.9	91	23959
ANDERSON SSM,SC.....	140	21.8	92	21750					189	25.2	95	23013
ANDERSON SST,SC.....	168	25.4	81	22625	112	25.2	99	23882	144	42.8	94	23910
ANDERSON SSW,SC.....	130	26.2	74	22750	133	27.0	99	23647				
ANDERSON SSX,SC.....	144	20.5	82	23875	105	21.9	99	23411	164	21.4	87	24020
BO-JAC X39.....	127	22.3	83	24250	135	25.5	100	22823				
BO-JAC X507.....	158	25.1	59	21000								
BO-JAC X52A.....	162	27.7	83	22125	156	26.1	98	23882	205	26.1	78	23874
BO-JAC X52B.....	154	22.9	95	21500	153	26.5	99	24000	234	24.2	87	24001
BO-JAC X56B.....	157	24.1	42	22875	156	26.5	100	24000	202	25.1	91	22364
BO-JAC X56*.....	155	24.3	87	21750	137	27.6	100	24000	216	26.6	98	23986
BO-JAC X650.....	144	25.4	81	22875								
BO-JAC X7L.....	158	25.0	88	22375	139	27.5	98	23882				
BO-JAC X701.....	170	28.0	90	24250	164	30.4	100	23411				
BO-JAC X83.....	163	25.9	88	20375	146	25.7	100	21647	208	27.8	97	23745
CARGILL EXP262194.....	146	24.2	62	22750								
CARGILL 920.....	137	23.2	68	22000	145	24.5	95	23411	167	22.5	86	24015
CARGILL 924.....	143	24.7	89	22125								
CARGILL 949.....	190	26.3	88	23375	147	26.0	99	23529	220	24.6	92	23645
CFS 222.....	167	22.6	53	22875								
CFS 405.....	111	26.6	91	19875								
DEKALB XL 55A*.....	112	22.1	70	22375								
DEKALB XL 64*.....	134	25.5	96	22625	131	25.6	99	22470	166	23.9	82	24000
DEKALB XL 72B*.....	148	26.0	87	23000	149	26.9	100	23294				
DENNIS DS31.....	154	24.4	84	22875	120	25.5	100	23764	179	27.0	94	23334
DENNIS DS37.....	185	25.1	89	22125	132	28.2	100	22941	228	24.2	96	23368
DENNIS DS39.....	166	25.4	86	22250	136	28.1	100	24000				
DENNIS DS47A.....	139	22.5	80	23250	128	24.8	100	22352				
DENNIS DS48.....	138	24.8	90	21750	108	26.0	100	23764				
DENNIS DS68.....	125	27.1	69	22125								
FS 444.....	135	23.2	78	22125	138	24.1	98	23882				
FS 642.....	164	25.1	90	23000	151	26.0	100	23411	174	25.7	92	23992
FS 680*.....	151	24.3	63	21250	140	25.7	100	23294	219	23.7	98	23384
FS 682.....	153	24.9	85	22000								
FS 850.....	166	27.2	82	22625	153	26.0	98	24000	175	27.3	94	23411
FUNKS G-4321A.....	159	21.4	96	22875	128	22.5	98	23411	164	21.6	97	23863
FUNKS G-4507.....	163	25.0	86	22125	128	24.6	100	22941	188	23.4	96	23956
FUNKS G-4520.....	189	23.6	78	22375	156	27.5	100	23058	218	24.2	84	23099
FUNKS G-4606.....	193	26.2	95	22000								
GOLD TAG 4020.....	149	24.8	66	21750								
GOLD TAG 880.....	175	26.3	83	22500	108	25.9	100	23294	183	26.4	95	22872
GOLDEN HARVEST EXP517.....	134	21.2	72	22875								
GOLDEN HARVEST EXP582.....	162	23.8	86	21625								
GOLDEN HARVEST EXP747.....	167	23.5	93	20250								
GOLDEN HARVEST H2500*.....	163	24.7	93	23750	150	25.7	100	23764	178	25.2	86	24021
GOLDEN HARVEST H-2577	139	26.0	88	17625	137	28.2	99	24000	188	28.9	81	23645
GUTWEIN 2446.....	95	23.6	89	20625								
GUTWEIN 58.....	165	23.2	95	21875	126	23.4	95	23764				
GUTWEIN 62*.....	158	23.2	68	22250	148	24.7	100	23411	177	25.7	92	23638
GUTWEIN 64.....	178	24.8	93	23625	155	26.2	98	23764	194	24.9	87	22601
LANDERS 9911.....	143	24.5	92	21875	120	25.0	100	23764	183	24.8	90	22925
LANDERS 9913.....	171	25.1	91	24000	115	26.7	100	23764	176	24.5	99	24024
LANDERS 9915.....	183	26.4	90	23750	128	27.1	99	23529	209	24.6	89	23889
LANDERS 9919.....	149	26.9	86	21875	110	27.2	100	23882	165	27.9	90	23162
LEADER SX610.....	154	24.0	69	20750								
LEADER SX710.....	147	26.7	81	21500								
LEWIS X24B.....	187	25.2	80	20875	165	27.1	100	23529	224	25.4	82	23776

Table 9a. — Urbana, Increased Planting Rate, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
LEWIS X358.....	154	24.4	93	22000								
LEWIS X61B.....	156	25.6	68	23500								
LEWIS X62B.....	140	24.5	75	23125	125	26.9	100	22705	190	25.9	87	23497
LEWIS X73B.....	141	27.6	81	23875								
LEWIS X74B.....	152	26.1	91	20625								
LEWIS X81B.....	208	27.2	86	22025	175	27.9	100	23647				
LLWIS X86B.....	165	28.2	82	22125								
LYNKS LX4330.....	148	29.2	88	23000								
LYNKS LX4510.....	159	26.3	83	22875								
LYNKS 7X33.....	153	26.4	89	21500								
LYNKS 7X39.....	122	27.7	60	21875								
MCALLISTER SX7300B.....	130	27.2	59	23750								
MCALLISTER SX7300D.....	162	26.1	90	20875								
MCALLISTER SX7300.....	151	23.6	52	22625	154	26.6	100	24000				
MCALLISTER SX7402D.....	115	22.2	98	23625								
MCALLISTER SX7406.....	159	24.0	73	22500								
MCALLISTER SX7617.....	169	26.8	95	23000	127	27.6	100	23294				
MCALLISTER SX7812.....	144	25.3	74	22250								
MCA BUCK 1.....	128	20.8	80	23000								
MCA DRYDOWN.....	113	20.7	85	21500								
MCA DYNDOMITE.....	164	24.8	89	22000								
MCCURDY MSX65A*	168	27.1	80	22875	147	29.6	99	23294	215	25.2	91	23847
MCCURDY MSX70.....	161	26.7	94	23375	120	27.7	100	23882	192	26.7	91	22979
MCCURDY MSX84A.....	163	27.1	79	23000	140	26.4	100	23529				
MCCURDY MSX84.....	198	26.0	88	22750	145	27.6	100	23764	188	25.8	94	22641
MCCURDY MSX86A.....	144	26.3	54	22250								
MCCURDY 76-90.....	162	27.9	85	20000	144	28.4	99	23882				
MIGRO M-EKP 7110.....	151	25.7	78	22125								
MIGRO M-0301.....	134	21.1	75	23000	111	23.5	97	23647	182	21.0	97	23620
MIGRO M-0505.....	158	24.4	89	21750	133	24.9	100	23882	193	24.6	94	23717
MIGRO M-0707.....	177	28.0	95	22250								
MIGRO M-2018 X.....	130	23.0	90	22875	102	20.8	98	23882				
MIGRO M-2022 X.....	140	23.0	96	23000	122	21.4	100	24000				
MOBLE MB 2551.....	173	24.7	93	20375	158	27.2	100	23529				
NORTHUP-KING PX675.....	120	25.1	71	21125	114	26.4	100	23529				
NORTHUP-KING PX74.....	184	24.1	70	22375	121	26.7	99	22823				
NORTHUP-KING PX76.....	149	24.0	95	21375								
NORTHUP-KING PX87.....	192	25.5	77	23750								
O'S GOLD SK5353.....	124	25.5	68	21000								
O'S GOLD SK5500A.....	161	26.5	83	21125	145	26.6	99	22823				
O'S GOLD SK5500AB.....	114	25.5	71	21500	163	26.9	100	24000				
PIONEER 3334A*	156	26.5	94	23500					188	25.8	90	24002
PIONEER 3780*	132	21.7	96	24125	93	22.2	100	21882				
POCKLINGTON E-6341.....	97	25.9	86	20625					177	24.6	87	23227
POCKLINGTON E-6441.....	167	27.2	89	23125								
PRAIRIE STREAM GOLDEN CROSS SX4.....	173	25.7	90	20375	132	27.5	100	23647	220	24.3	90	23255
PRAIRIE STREAM GOLDEN CROSS SX5B.....	159	24.9	86	23250	140	27.5	99	23647	197	27.7	92	23603
PRAIRIE STREAM GOLDEN CROSS SX6A.....	155	25.0	91	23000	140	25.7	100	23647	190	24.3	91	23727
PRAIRIE STREAM GOLDEN CROSS SX66.....	170	24.8	93	21625	135	28.8	100	23058				
PRINCETON SX840.....	148	28.3	79	21625	136	31.2	100	23882	202	27.7	83	21976
P.A.G. SK 333.....	150	25.1	89	21875								
P.A.G. SK 346.....	145	24.3	82	22125								
P.A.G. SK 98.....	159	27.3	93	21875	117	27.3	98	24000	189	27.7	95	22878
P.A.G. 314.....	133	22.1	86	20000	145	26.4	98	23176	188	24.0	88	23634
RING AROUND RA 1501.....	154	24.4	83	23125								
SEED-KEM SK 56.....	134	26.1	73	23500								
SEED-KEM SK 76.....	142	25.9	74	20250	129	27.2	100	22941	187	25.0	88	23631
SEED-KEM SK 86.....	148	25.8	95	22250	134	27.0	100	23882	196	25.3	93	23869
STEWART SX6173.....	187	27.9	87	24250								
STEWART SX6473.....	164	26.6	72	21875								
STEWART SX6873.....	143	26.3	85	20500	138	28.2	100	23058	202	27.5	84	24002
STEWART SX6973.....	172	26.9	72	22625								
STEWART SX77.....	193	25.7	96	20250	159	26.2	99	22470	181	25.9	94	23970
STONE SX38.....	157	27.3	84	21125								
STONE SX42.....	176	27.7	85	22750								
STONE SX73.....	164	25.2	74	21000								
STURDY-GROW S/G 608.....	144	20.3	81	23375								
STURDY-GROW S/G 805A.....	175	26.1	91	22500	143	27.7	100	23647				
STURDY-GROW S/G 807.....	167	24.9	94	22875	148	24.3	99	23529	216	24.8	88	23986
STURDY-GROW S/G 825A.....	151	25.9	84	21125	142	27.1	100	23764				

Table 9a. — Urbana, Increased Planting Rate, continued

BAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS /ACRE		YIELD BU/A	MOIST- URE %	%ERECT PLANTS /ACRE		YIELD BU/A	MOIST- URE %	%ERECT PLANTS /ACRE	
			PLANTS	%			PLANTS	%			PLANTS	%
STURDY-GROW S/G 827.....	169	26.0	87	20875	157	26.0	100	23058	195	28.4	83	23359
STURDY-GROW S/G 847.....	136	25.8	84	24000	132	26.7	99	22352				
SUPER-CROST 2880.....	149	23.7	88	22500								
SUPER-CROST 3585.....	126	21.6	81	22000								
SUPER-CROST 4242.....	147	23.2	80	24000	120	25.0	100	22235				
SUPER-CROST 4350.....	131	23.5	66	22375	98	23.2	100	24000	174	22.7	87	24024
SUPER-CROST 5330.....	146	24.6	85	20875								
SUPER-CROST 5440.....	160	25.0	72	22500	143	26.7	100	23764	185	26.4	85	23372
SUPER-CROST 6800.....	179	25.9	93	22500								
TAYLOR-EVANS T.E. 6968.....	136	23.7	91	22250	136	27.5	100	23647	196	25.2	89	23908
TAYLOR-EVANS T.E. 6969.....	139	27.8	64	23500	143	30.0	99	24000	199	28.8	87	23970
TAYLOR-EVANS T.E. 6992.....	131	24.3	60	21250	130	27.4	100	24000	162	24.1	88	23752
TAYLOR-EVANS T.E. 6995-A.....	143	25.7	92	23875								
TAYLOR-EVANS T.E. 6995.....	152	26.5	80	24000	150	24.8	100	23647	218	26.2	85	23709
TODD MX73A.....	155	24.0	68	20750								
TODD MX73.....	188	23.7	91	22250	130	26.9	99	21882	177	26.3	95	23337
TODD M48.....	140	22.1	94	21250								
TODD M49.....	128	23.0	89	21875								
TRISLER T-290C.....	146	19.8	77	21500								
TRISLER T-337.....	155	26.0	84	21250								
TRISLER T-515C.....	139	24.2	72	23875	116	24.3	99	24000				
TRISLER T-5450.....	148	22.5	73	22000	150	25.7	100	23529				
TRISLER T-5470.....	133	25.8	95	21750								
TRISLER T-5600.....	145	26.9	75	22625								
TRISLER T-735C.....	161	26.0	69	23625	142	26.5	99	23882				
TRISLER T-7370.....	184	28.3	79	21625								
TROJAN TXS 115A.....	163	25.6	93	21250	139	27.7	100	24000	192	25.7	93	23961
TROJAN TXS 117A.....	110	21.9	87	22375	128	27.0	99	23294	202	23.7	93	23780
TROJAN T 1108.....	153	22.9	65	21125								
TROJAN T 1120.....	172	23.9	97	24125	144	27.4	100	23764				
U.S.S. 0010.....	115	22.7	86	22625	135	21.8	100	23294	162	22.0	93	24031
U.S.S. 1010.....	150	24.8	79	21625	142	24.9	100	23294	203	26.4	94	21762
VORIS V 2532.....	150	24.8	73	21000	141	25.8	99	23647	206	24.8	96	24033
VORIS V 2542.....	164	24.2	82	24125	154	27.9	100	23647	173	25.7	82	23000
VORIS V 2551.....	167	25.4	86	19125								
VORIS V 2601.....	166	26.5	64	22250								
WHISNAND 80.....	169	25.8	55	23000	132	27.4	99	24000	141	26.4	89	23596
WHISNAND 81.....	217	25.4	67	22875	148	26.4	97	23764	209	24.5	90	23759
WHISNAND 83.....	144	24.9	88	21750	117	26.1	99	23647				
WHISNAND 85.....	149	24.8	85	23375	129	25.1	99	24000	189	24.0	76	23950
AVERAGE OF 1978 ENTRIES.....	153	25.0	82	22224								
L.S.D. 10% LEVEL.....	29	2.1	19	2224								
L.S.D. 30% LEVEL.....	18	1.3	12	1402								
C.V.	14	6.2	17	7								

Table 10. — West South-Central Illinois: Greenfield (Planted at 20,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
ACCO UC 8951.....	93	17.4	95	17425								
AG SEEDS AXS 120.....	123	16.8	91	17919								
AINSWORTH I-619.....	126	17.0	91	17503								
AINSWORTH X-620.....	90	16.3	92	19659								
AMERICANA 3200.....	94	16.2	98	18128	74	18.6	91	19444				
AMERICANA 3500A.....	99	16.0	94	18788								
AMERICANA 4500.....	124	16.6	93	19775								
AMERICANA 4700.....	122	16.8	92	18985	82	19.7	86	20000				
AMERICANA 6700.....	89	17.1	94	18498	107	18.6	96	20000				
BO-JAC X47.....	88	16.3	95	18387								
BO-JAC X505.....	108	16.2	93	18455								
CARGILL 949.....	101	16.0	93	18406								
CARGILL 979.....	117	17.5	91	19532	86	19.2	92	19555				
PS 680.....	105	15.9	94	17210	74	18.2	91	18888	98	19.4	98	19777
PS 682.....	112	16.1	94	19008								
PS 850.....	124	18.8	91	19582	97	20.9	97	19555	103	20.6	99	19000
PS 854.....	110	17.8	91	17316	106	19.8	87	19555	101	20.5	97	19666
PS 858.....	132	17.5	95	18712								
LEWIS X29B.....	78	15.4	95	17069								
LEWIS X77B.....	134	17.1	95	19139	84	20.2	90	19888				
LEWIS X78B.....	89	17.7	90	16743								
LEWIS X81B.....	113	17.1	92	18792	106	20.1	88	19333				
LEWIS X86B.....	92	18.8	92	18868								
MCCURDY MSX84A.....	101	16.5	92	18941	104	17.7	85	19444				
MCCURDY MSX87A.....	118	17.5	93	19142								
MCCURDY MSX88.....	103	17.6	94	16395	122	18.8	96	19555				
MIGRO M-EXP 7110.....	111	16.3	97	20185								
MIGRO M-0505.....	98	15.6	94	19628	82	18.8	89	19888				
MIGRO M-0707.....	83	17.1	96	19541	101	20.9	96	18555	113	19.7	95	19777
MIGRO M-7072.....	96	16.7	95	19974	87	20.1	92	20000	95	19.5	94	20000
O'S GOLD TX311.....	118	16.3	97	18382								
POCKLINGTON FX-8.....	110	17.5	90	18190								
POCKLINGTON E-633.....	79	16.4	97	19493								
POCKLINGTON P-6441A.....	105	17.2	90	19033								
POCKLINGTON E-6441.....	95	17.2	91	16297								
POCKLINGTON E-7441.....	99	18.1	94	17853	66	19.2	93	18666	94	21.0	93	19777
P.A.G. SX 333.....	89	16.1	97	19039								
P.A.G. SX 346.....	108	15.7	89	19387								
P.A.G. 314.....	87	15.6	96	19777	97	20.4	92	19777				
RING AROUND RA 1501.....	117	16.1	93	17831								
SUPER-CROST 4350.....	88	15.7	94	19176	94	18.4	93	20000				
SUPER-CROST 5330.....	98	16.0	93	19220								
SUPER-CROST 5440.....	109	16.4	93	18593	80	19.0	94	19444				
SUPER-CROST 6800.....	111	17.1	96	19198								
TROJAN TIS 119.....	115	17.5	94	18499	102	21.2	92	18888	93	20.0	97	19222
THOJAN T 1210.....	112	16.0	89	18812								
U.S.S. 1010.....	77	16.2	96	17367	99	19.1	91	18777				
AVERAGE OF 1978 ENTRIES.....	104	16.7	93	18557								
L.S.D. 10% LEVEL.....	18	0.8	..	..						
L.S.D. 30% LEVEL.....	11	0.5	..	..						
C.V.	12	3.8	3	7								

Table 10a. — West South-Central Illinois: Greenfield, Increased Planting Rate (Planted at 24,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	110	17.6	98	21344
AINSWORTH X-3517.....	120	16.8	96	22742	111	18.9	94	22285	110	17.6	98	21344
AINSWORTH X-617.....	99	16.9	94	22514								
ANDERSON SSL,SC.....	98	15.3	97	22514	92	17.8	93	24000				
ANDERSON SSM,SC.....	85	15.2	96	20000								
ANDERSON SST,SC.....	108	17.5	91	21257	105	18.0	88	22857				
ANDERSON SSW,SC.....	123	16.4	94	21028	93	20.0	96	23200				
ANDERSON SSX,SC.....	97	15.4	93	18628								
ASGROW RX88.....	107	16.4	94	21942								
ASGROW RX90.....	115	15.8	94	21600	133	19.4	88	23542				
ASGROW RX98.....	123	17.2	90	21142								
BO-JAC X505.....	120	16.0	97	21257								
BO-JAC X690.....	99	17.3	97	22285	106	19.1	83	23428				
BO-JAC X701.....	119	17.4	94	21142	111	19.6	90	23885				
BO-JAC X83.....	88	16.0	98	22400	98	18.8	96	22857	110	19.3	93	23508
CARGILL EXP262194.....	117	16.2	93	21942								
CARGILL 920.....	113	16.0	94	23314	97	18.8	95	22400	94	18.1	94	23434
CARGILL 924.....	109	16.4	95	22400								
CARGILL 949.....	108	16.1	96	21714	90	18.4	91	22285	84	18.2	99	23124
CARGILL 979.....	112	17.9	92	22285	94	18.8	92	23428				
DEKALB XL 72E*	113	16.7	89	22057	130	18.8	92	22971				
DEKALB XL 75*	134	16.3	92	22171								
DENNIS DS31.....	131	16.6	95	22285								
DENNIS DS37.....	102	16.2	95	21714								
DENNIS DS39.....	123	17.5	93	22514								
DENNIS DS68.....	110	17.3	94	23428								
FS 642.....	95	15.7	96	21142	101	19.7	95	22514	101	18.2	98	23821
FS 680*	96	15.7	93	18057	94	19.6	93	22400	105	17.7	97	22696
FS 850.....	127	18.9	95	24000	92	20.1	93	22285	129	19.9	96	21089
FS 854.....	134	18.8	91	21600	119	20.1	84	21600	104	19.6	92	23578
FS 858.....	132	17.4	94	23542								
FUNKS EXP28549.....	133	17.0	92	22400								
FUNKS G-4507.....	97	15.9	96	22285	108	19.4	93	23428	97	19.5	98	23386
FUNKS G-4520*	103	17.0	93	20342	107	19.4	90	21600	90	18.0	98	23561
FUNKS G-4606.....	105	16.5	95	21485								
GOLDEN HARVEST H2500*	116	16.5	94	22514	118	19.4	96	23200				
GOLDEN HARVEST H2650D*	128	17.4	90	21257								
LEWIS X29B.....	83	15.7	95	21714								
LEWIS X74B.....	125	17.2	95	22400								
LEWIS X81B.....	119	16.5	92	22514	82	20.2	91	23085				
LEWIS X86B.....	101	18.3	94	22628								
LYNKS LX4330.....	118	16.6	95	21485								
LYNKS LX4510.....	122	17.5	92	19428								
LYNKS 7X33.....	143	16.4	95	22628								
LYNKS 7X39.....	109	16.7	95	22971								
MCCURDY MSK70.....	126	17.1	93	22057	114	19.5	90	23200				
MCCURDY MSX84.....	94	15.8	92	21028	107	18.4	84	21600	111	18.8	99	21890
MCCURDY MSX86A.....	120	17.0	94	22285								
MCCURDY MSX88.....	110	17.7	93	19885	106	20.0	92	23200	98	19.0	96	22589
MIGRO M-EXP 7110.....	112	15.9	90	22400								
MIGRO M-0505.....	99	16.1	93	21142	90	20.5	92	24000				
MIGRO M-0707.....	109	17.2	93	22285	102	19.9	96	23542	122	18.4	94	22927
MIGRO M-7072.....	95	17.4	98	22400	76	19.8	91	23657	94	18.2	94	23334
MUNCI-CHIEF SX776.....	108	16.4	96	22857								
MUNCI-CHIEF SX878.....	105	16.9	93	21942								
MORTHRUP-KING PX74.....	122	16.1	93	22628	111	18.9	93	23314				
MORTHRUP-KING PY76.....	122	16.7	95	22400								
MORTHRUP-KING PY87.....	91	17.0	92	22742								
O'S GOLD SX5353.....	126	16.8	92	21828	117	18.1	86	24000				
PIONEER 3184*	126	18.0	97	22400	142	22.3	97	23085				
PIONEER 3334A*	107	17.2	93	21485	109	19.6	94	23657				
PIONEER 3369A*	79	16.1	94	20914	97	18.5	92	23657				
P.A.G. SX 333.....	100	16.1	94	22628								
P.A.G. SX 98*	112	18.3	95	20228	103	20.2	92	23885	120	19.5	95	23871
P.A.G. 314.....	104	16.0	94	19200	89	18.6	92	23428				
RBA EXP 2000.....	114	16.9	98	20342								
RBA 1044.....	100	15.8	95	22400								
RING AROUND RA 1501.....	91	16.1	96	20457								
STONE SX38.....	123	16.8	88	21942								
STONE SX40.....	121	17.7	91	20457								
STONE SX42.....	132	17.6	89	22171								

Table 10a. — Greenfield, Increased Planting Rate, continued

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
			/ACRE			/ACRE			/ACRE
STONE SX73.....	108	15.4	96	22057					
STURDY-GROW S/G 805A.....	106	16.9	95	22971	77	19.2	95	23428	
STURDY-GROW S/G 827.....	118	18.1	95	20914	113	19.4	88	23657	
STURDY-GROW S/G 847.....	78	15.6	94	22971	98	19.4	91	22971	
SUPER-CROST 4350.....	97	15.6	95	21371	88	18.0	94	23542	
SUPER-CROST 5330.....	120	16.1	95	22514					
SUPER-CROST 5440.....	99	16.4	94	21600	83	20.1	91	23542	102
SUPER-CROST 6800.....	116	17.5	91	22285					
TAYLOR-EVANS T.E. 6945.....	117	15.6	94	21028					
TAYLOR-EVANS T.E. 6968.....	100	16.6	94	20914	92	19.2	91	23885	100
TAYLOR-EVANS T.E. 6969.....	105	17.6	90	18742	126	20.1	87	23771	90
TAYLOR-EVANS T.E. 6980.....	126	18.0	95	21028	90	19.8	94	22628	110
TAYLOR-EVANS T.E. 6992.....	89	15.7	94	21028	83	18.9	92	23428	86
TAYLOR-EVANS T.E. 6995-A.....	95	16.3	95	22400					
TAYLOR-EVANS T.E. 6995.....	126	16.6	94	22514	99	18.0	93	22971	101
TRISLER T-335.....	122	16.4	90	21828	72	18.4	84	23314	88
TRISLER T-337.....	102	17.0	95	20914					
TRISLER T-5450.....	114	16.4	96	21714	89	18.9	94	23200	106
TRISLER T-5470.....	131	17.2	95	21828					
TRISLER T-5600.....	115	16.1	96	20800					
TRISLER T-7350.....	83	16.1	92	21028	100	19.2	88	23085	102
TRISLER T-7370.....	113	16.9	93	19428					
TRISLER T-7475.....	117	18.0	93	22514					
TRISLER T-7500.....	120	18.1	92	19657	92	20.3	93	23200	94
TRISLER T-934.....	104	17.6	90	19771					
TROJAN TXS 114.....	126	16.1	92	22400	114	19.6	94	22742	81
TROJAN TXS 115A.....	109	16.0	92	20914	76	18.6	92	23200	91
TROJAN TXS 117A.....	98	14.7	95	21942	108	18.6	93	21942	101
AVERAGE OF 1978 ENTRIES.....	111	16.7	94	21642					
L.S.D. 10% LEVEL.....	21	0.7	..	2247					
L.S.D. 30% LEVEL.....	13	0.4	..	1414					
C.V.	14	3.4	3	7					

Table 11.— Southern Illinois: Brownstown (Planted at 18,000 plants per acre
in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
ACCO U 393.....	76	26.0	94	17888					
ACCO U 395.....	56	28.9	94	18000					
AG SLEDS AXS 120.....	106	26.4	90	17777					
AINSWORTH X-3517.....	70	27.2	91	17868					
AINSWORTH X-719.....	100	24.0	95	18000					
BO-JAC X505.....	97	26.2	92	15666					
BO-JAC X52A.....	66	26.4	90	18000	100	18.7	96	18000	59 24.2 98 18037
BO-JAC X52B.....	80	24.2	95	17777	109	19.0	91	18000	
BO-JAC X56.....	76	27.2	92	18000	105	18.8	96	18000	44 23.4 94 17961
BO-JAC X690.....	88	26.4	91	18000	96	18.4	96	17333	
BO-JAC X69.....	79	26.6	99	18000	94	19.0	92	17555	
BO-JAC X701.....	74	26.5	88	17444	102	19.9	95	18000	
BO-JAC X83.....	91	25.8	93	17888	114	19.2	97	18000	74 23.0 97 17999
FS 680.....	83	24.4	88	17777	108	17.4	91	18000	
FS 850.....	87	27.9	97	17666	82	20.1	94	17777	64 26.5 98 17788
FS 854.....	112	24.1	91	17666	101	18.5	89	17666	52 25.2 86 17678
FS 858.....	83	25.7	97	17777					
FS 884.....	75	28.3	96	17444	112	19.1	88	18000	76 28.6 91 18006
GOLD TAG 4020.....	80	27.5	94	16777					
HOBЛИT XR451.....	84	25.9	97	17888					
MCCURDY MSP888.....	85	25.8	94	18000	90	18.7	91	17222	76 25.0 96 17771
MCCURDY MSX86A.....	84	27.8	95	18000					
MCCURDY MSX87A.....	70	25.8	89	16666					
MCCURDY MSX88.....	93	26.2	94	16777					
MIGRO M-EXP 7110.....	94	25.6	92	18000					
MIGRO M-0505.....	76	24.8	97	18000	97	17.8	98	17777	
MIGRO M-0707.....	100	26.2	93	17888	127	18.7	88	17888	88 23.4 98 17806
MIGRO M-7072.....	56	26.5	93	17888	75	19.2	89	18000	71 22.3 95 17709
O'S GOLD SX5353.....	74	25.3	94	18000	101	18.9	97	17888	
O'S GOLD SX5509.....	94	27.3	93	18000					
PFISTER 65.....	92	24.4	89	18000	96	17.6	96	17888	38 22.4 91 17717
PFISTER 68.....	75	26.5	96	15000	102	18.1	93	18000	38 25.4 98 17421
PFISTER 75.....	75	26.6	96	17888	91	18.3	81	17333	41 23.5 96 17958
POCKLINGTON EX-8.....	92	27.4	95	17666					
POCKLINGTON E-7661.....	89	28.4	94	17333					
PRINCETON SX840.....	79	27.2	97	16666	94	18.4	97	17888	88 22.6 94 17854
RING AROUND RA 1501.....	83	26.4	93	17666					
RING AROUND BA 2502.....	103	26.9	91	18000					
RING AROUND BA 2744.....	90	28.1	95	17222					
SUPER-CROST 5330.....	79	26.7	97	18000					
SUPER-CROST 5440.....	96	26.3	96	18000	98	19.2	94	17888	
SUPER-CROST 6800.....	100	26.7	93	18000					
TODD MX73A.....	74	26.4	93	17777					
TODD MX73.....	82	24.1	90	17555					
TODD M86.....	85	27.2	97	17333					
TCDD M95.....	71	27.7	95	18000					
TROJAN TXS 119.....	86	27.5	97	17888	77	20.8	96	17444	76 24.5 99 17895
TROJAN T 1210.....	73	26.9	91	18000					
U.S.S. 0555A.....	80	25.8	96	18000	80	18.2	91	17777	
U.S.S. 1010.....	88	25.6	96	17333	92	17.9	93	18000	65 26.2 93 17664
U.S.S. 1515.....	83	26.5	96	17777	89	19.8	100	17888	53 23.3 94 17875
VORIS V 2532.....	88	26.1	94	17555	108	18.4	94	18000	
VORIS V 2601.....	72	25.3	92	17888					
VORIS V 2631.....	83	26.0	93	17888					
AVERAGE OF 1978 ENTRIES.....	83	26.2	94	17623					
L.S.D. 10% LEVEL.....	19	1.8	--	--					
L.S.D. 30% LEVEL.....	12	1.1	--	--					
C.V.	17	5.2	4	5					

Table 11a. — Southern Illinois: Brownstown, Increased Planting Rate (Planted at 22,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	PLANTS /ACRE
ADI 555.....	119	25.4	93	20444	103	18.2	89	21025				
ADI 626.....	88	25.6	88	20000	81	18.5	92	19902				
ADI 646.....	109	26.3	92	21222	108	19.0	91	21899				
ADI 677.....	90	23.1	88	20333								
AIMSWORTH X-518.....	125	23.8	93	22000	85	19.1	86	21015	107	21.1	95	20888
AIMSWORTH X-617.....	119	24.5	89	19444	129	22.3	100	19855				
ASGROW BX88.....	105	25.8	94	21222								
ASGROW RX90.....	94	24.4	92	21333	89	18.8	89	20686				
ASGROW RX98.....	98	25.0	95	18777								
BO-JAC X505.....	112	25.2	91	20000								
BO-JAC X507.....	88	23.6	90	21555								
BO-JAC X52A.....	99	25.4	84	16888								
BO-JAC X56.....	110	24.5	94	21888	110	11.8	83	31021	52	20.8	97	22000
BO-JAC X701.....	109	23.5	91	21444	76	18.7	94	21927				
BO-JAC X83.....	144	25.7	94	21333	86	19.7	93	21602	81	20.9	98	21555
CARGILL 949.....	112	24.1	92	20888	109	17.7	89	22058	47	22.3	100	21888
CARGILL 979.....	97	26.5	95	21111	64	18.9	92	21348	50	22.5	92	21222
DEKALB XL 72AA*.....	105	25.5	95	21111	77	18.2	93	20418				
DEKALB XL 72B*.....	116	25.6	95	21666	97	18.9	92	21728	109	25.5	96	22000
DENNIS DS31.....	97	27.6	85	21555	156	20.7	96	19832				
DENNIS DS37.....	126	25.5	93	20222	78	18.9	95	21684				
DENNIS DS39.....	96	25.0	97	21000	88	18.4	91	21987				
DENNIS DS68.....	103	25.7	90	20333								
FS 680.....	104	25.1	91	21222	103	17.9	93	20388				
FS 850.....	118	26.4	91	20222	79	19.7	96	21157	91	25.3	97	21444
FS 858.....	117	26.1	93	21333								
FS 860*.....	97	29.0	91	21222	134	22.4	110	19814	123	25.4	94	21666
FS 884.....	89	27.1	95	20555	84	19.1	84	21617	87	26.3	93	22000
FUNKS EXP28549.....	119	27.6	93	21888								
FUNKS G-4507.....	121	24.2	90	18222	62	26.1	83	21785	53	19.9	99	21555
FUNKS G-4520.....	92	23.0	90	20888	104	19.4	83	21417	48	21.0	96	21000
FUNKS G-4606.....	117	24.9	94	21333								
GOLDEN HARVEST H2500*.....	81	24.9	93	19888	54	25.1	84	21490	55	24.2	100	22000
GOLDEN HARVEST H2650D*.....	89	25.9	91	20333								
GUTWEIN ZX-087.....	113	25.9	96	19555	53	26.7	88	21393				
GUTWEIN 72.....	112	24.4	95	20777	90	18.5	90	21969				
GUTWEIN 88.....	107	26.2	95	18666	89	19.9	97	21770				
HOBЛИT X8454.....	102	24.8	95	21111								
LANDERS 9913.....	93	24.9	92	20666								
LANDERS 9915.....	118	25.5	93	20777	55	19.2	92	21764				
LANDERS 9919.....	109	26.9	93	21444	100	18.5	95	21696				
LEWIS X73B.....	121	26.1	87	21111					41	23.0	98	20111
LEWIS X748.....	86	24.8	94	21222								
LEWIS X788.....	117	26.3	91	21333	105	11.0	84	30649	101	25.6	99	21000
LEWIS X818.....	113	27.2	93	19000	103	23.0	100	19695				
LEWIS X868.....	116	27.1	95	21555								
LYNKS LX4330.....	114	23.4	93	21111								
LYNKS LX4510.....	102	26.1	92	17777								
LYNKS 7X33.....	104	26.2	93	20888								
LYNKS 7X39.....	105	24.7	84	21111								
MCA BUCK 1.....	94	21.8	93	21444								
MCA DYNODOMITE.....	92	25.6	88	20555								
MCCURDY MSX70.....	117	25.6	93	19888	75	17.7	96	21236	81	21.9	98	20888
MCCURDY MSX84.....	107	24.5	88	20777								
MIGRO M-BXP 7110.....	116	25.8	91	21666								
MIGRO M-0505.....	106	26.0	95	20333	100	11.5	81	32907				
MIGRO M-0707.....	110	25.9	90	20444	109	19.1	90	21740	92	23.2	95	22000
MIGRO M-7072.....	95	25.0	96	21000	88	17.3	85	21664	82	24.2	91	21777
MOBLE MB 2551.....	119	26.2	92	20888	70	18.2	94	21759				
NORTHRUP-KING PX74.....	100	24.7	93	21111	141	11.7	83	33503				
NORTHRUP-KING PX87.....	115	27.6	94	21444								
NORTHRUP-KING PX95.....	93	28.2	98	21333	61	21.6	78	21648				
O'S GOLD SX5353.....	108	25.0	93	16000	143	21.3	100	19253				
O'S GOLD SX5509.....	109	26.2	93	20666								
PIONEER 3334A*.....	88	27.7	96	21333	61	18.7	95	21069	103	26.5	95	21666
PIONEER 3369A*.....	109	23.6	92	22000	151	21.6	100	18782	103	21.9	96	21666
PREMIER SX633.....	130	24.2	96	21222	86	18.1	88	21398	41	24.1	97	20666
PREMIER SX636.....	102	23.9	93	21111								
PREMIER SX639.....	137	25.7	86	21666								
PREMIER SX688.....	113	26.8	97	21666	49	20.0	98	21968	80	24.7	98	21555
P.A.G. SI 98*.....	108	26.8	94	20333	75	19.2	97	21968	61	25.3	97	21444
P.A.G. 314.....	104	23.2	89	20333	72	18.2	93	21808				
RBA EXP 2000.....	98	25.9	93	21444								
RBA 114.....	87	26.2	94	20222								
RING AROUND RA 1501.....	117	24.2	99	20888	121	22.4	100	18749				

Table 11a. — Brownstown, Increased Planting Rate, continued

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS	
			PLANTS	/ACRE			PLANTS	/ACRE			PLANTS	/ACRE
STURDY-GROW S/G 827.....	128	25.3	96	22000	149	21.8	100	18576				
STURDY-GROW S/G 847.....	109	24.2	86	20888	94	18.9	87	22059				
STURDY-GROW S/G 852A.....	119	23.8	94	21444								
SUPER-CROST 5330.....	79	27.0	93	21111								
SUPER-CROST 5440.....	94	25.6	94	21222	71	18.7	90	21886	56	23.0	98	21666
SUPER-CROST 6800.....	91	26.1	94	21666								
TAYLOR-EVANS T.E. 6945.....	112	24.3	93	21000								
TAYLOR-EVANS T.E. 6968.....	78	25.8	95	20888	89	17.6	92	22112	83	24.7	95	22222
TAYLOR-EVANS T.E. 6969.....	125	27.3	90	22000	117	10.9	85	33666				
TAYLOR-EVANS T.E. 6992.....	96	23.9	89	20222	76	18.4	93	21749	62	24.1	93	21777
TAYLOR-EVANS T.E. 6995-A.....	91	26.1	91	19111								
TAYLOR-EVANS T.E. 6995.....	100	25.5	91	21888	73	18.1	96	22059	50	21.9	98	21777
TROJAN TXS 115A.....	112	26.0	93	21777	84	18.2	81	21643	45	21.7	99	21444
TROJAN TXS 117A.....	75	22.1	96	20888	118	10.4	83	33756	51	23.8	99	20666
TROJAN TXS 119*.....	115	26.2	94	20666	64	19.0	96	21940				
U.S.S. 0010.....	94	22.6	98	22000	92	17.6	78	21599				
VORIS V 2542.....	91	24.8	89	21555					57	24.8	95	21888
VORIS V 2551.....	115	23.5	92	21111								
VORIS V 2592.....	116	26.3	95	21888	135	22.6	100	19604	62	22.1	95	20555
VORIS V 2601.....	102	26.1	97	21444								
VORIS V 2651.....	116	25.0	87	19555								
AVERAGE OF 1978 ENTRIES.....	106	25.3	93	20755								
L.S.D. 10% LEVEL.....	26	2.0	5	21114								
L.S.D. 30% LEVEL.....	16	1.3	3	1331								
C.V.	18	6.0	4	7								

Table 12. — Extreme Southern Illinois Upland: Carbondale (Planted at 18,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS				1977 RESULTS				1976 RESULTS			
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS		YIELD BU/A	MOIST- URE %	%ERECT PLANTS	
			PLANTS	/ACRE			PLANTS	/ACRE			PLANTS	/ACRE
ACCO AR38755.....	58	19.8	100	18000	114	18.2	99	17478				
ACCO UC 9792.....	59	19.6	99	17000	98	18.8	95	17569				
AG SEEDS AXS 120.....	51	17.9	98	17555								
BO-JAC X47.....	47	18.2	100	18000								
BO-JAC X505.....	73	17.5	99	17444								
BO-JAC X507.....	61	16.7	99	17888								
BO-JAC X701.....	84	17.9	99	18000	127	18.8	100	16954				
BO-JAC X83.....	71	18.2	100	17777	105	17.2	98	17976	97	20.4	97	17829
PS 680.....	57	17.0	100	16888	118	16.1	98	16446				
PS 850.....	59	20.9	100	17868	105	17.5	96	17232				
PS 858.....	53	18.8	100	18000								
PS 860.....	45	19.5	100	17222	111	19.3	96	15679	92	20.4	94	18053
PS 884.....	57	18.7	100	16888	88	19.4	99	17752	118	21.0	95	17970
PRINCETON SX840.....	65	19.9	99	18000	90	18.7	96	16937	105	20.1	95	17843
P.A.G. SX 17A.....	59	19.0	98	18000	113	17.3	96	16884				
P.A.G. SX 346.....	78	17.4	100	17333								
BING AROUND RA 1501.....	61	16.7	100	17111								
RING AROUND RA 1502.....	67	18.0	98	18000								
RING AROUND RA 2502.....	78	20.5	100	17888								
RING AROUND RA 2744.....	66	19.6	100	17777								
SUPER-CROST 5330.....	76	17.3	100	17777								
SUPER-CROST 5440.....	58	16.4	100	17555								
SUPER-CROST 6800.....	59	18.6	99	17777								
TROJAN TXS 119.....	89	19.4	100	17444	97	17.1	97	17921				
TROJAN T 1210.....	64	18.2	99	17333								
ZIMMERMAN Z-11-W.....	56	20.0	100	17333	102	20.5	96	16695				
ZIMMERMAN Z-20-Y.....	66	17.4	97	17666								
ZIMMERMAN Z-22-Y.....	66	18.8	99	17888								
ZIMMERMAN Z-24-Y.....	54	17.5	96	17555								
ZIMMERMAN Z-52-W.....	72	21.6	98	18000	100	19.5	98	17242				
AVERAGE OF 1978 ENTRIES.....	64	18.4	99	17649								
L.S.D. 10% LEVEL.....	..	1.6	..	..						
L.S.D. 30% LEVEL.....	..	1.0	..	..						
C.V.	29	6.7	1	2								

**Table 12a. — Extreme Southern Illinois Upland: Carbondale, Increased Planting Rate
(Planted at 22,000 plants per acre in 30-inch rows)**

BAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
ACCO DC 8951.....	87	17.8	97	21555	136	19.1	95	21000	
AIMSWORTH X-518.....	81	18.7	99	21222					
AIMSWORTH X-617.....	78	18.4	100	19333					
BO-JAC X402.....	51	16.2	100	20111					
BO-JAC X47.....	75	18.4	100	21222					
BO-JAC X505.....	56	18.5	99	18555					
BO-JAC X507.....	62	17.8	98	21868					
BO-JAC X52A.....	63	17.0	100	21666	120	16.5	99	18444	116
BO-JAC X56B.....	64	17.0	100	20888	114	16.8	98	18111	120
BO-JAC X56.....	72	17.5	100	21111	118	15.5	96	18555	124
BO-JAC X83.....	79	19.1	99	21444	111	18.6	98	17777	125
CABGILL 949.....	81	17.2	99	21666	104	16.4	100	16777	
CABGILL 979.....	75	19.8	98	21555	101	16.9	98	15111	
DEKALB XL 72B*.....	76	18.0	99	21222	118	16.5	100	21000	127
FS 680.....	70	17.8	100	20666	129	15.7	98	19444	127
FS 850*.....	69	20.3	98	19888	101	17.7	98	22000	101
FS 854.....	75	18.2	98	20333	101	18.0	99	17555	95
FS 858.....	45	18.9	97	20888					
FS 860*.....	77	19.9	98	21777	105	19.6	99	20777	138
FS 884.....	57	17.9	100	18333	124	18.4	98	19777	117
FUNKS EXP28549.....	91	18.5	99	21000					
FUNKS G-4507.....	77	17.1	98	21444	112	17.4	100	18222	87
FUNKS G-4520.....	68	16.8	99	22000	119	17.8	99	18888	127
FUNKS G-4606.....	96	17.6	97	21555					
JONES FARM STCRE J7705.....	65	17.6	100	21333					
JONES FARM STCRE J7708.....	66	17.8	100	20333					
JONES FARM STCRE J7709.....	71	19.6	98	21000					
MCCURDY MSX77.....	58	17.6	99	21555					
MCCURDY MSX84.....	64	18.6	97	21000					
MCCURDY MSX86A.....	84	18.6	98	21222	104	19.0	98	17222	
HIGBO M-EXP 7110.....	84	17.0	99	21444					
HIGBO M-0707.....	97	18.9	99	21888					
NORTHBUP-KING PX715.....	86	19.6	100	21444	97	19.6	96	17444	113
NORTHBUP-KING PX74.....	80	17.1	99	20888	111	16.9	98	18333	109
NORTHBUP-KING PX87.....	76	17.7	100	21222					
NORTHBUP-KING PX95.....	68	21.9	100	21333	97	20.6	96	19666	135
O'S GOLD SX5500A*.....	70	16.7	99	19777					
PIOWEEZ 3184*.....	72	18.4	99	19555	121	19.1	94	20000	
PIOWEEZ 3334A*.....	54	20.7	100	21777	98	16.9	98	21111	109
PIOWEEZ 3369A*.....	51	18.6	100	21666	129	15.9	97	19444	117
POCKLINGTON PY-8.....	54	19.3	99	19888					
PRINCETON SX840.....	81	18.5	98	21111					
PRINCETON SX850.....	86	19.7	99	22000					
P.A.G. SX 333.....	83	18.4	98	19333					
P.A.G. SX 98*.....	52	18.5	99	20555	109	17.4	98	19444	107
RING AROUND RA 1501.....	75	17.1	99	20888	120	16.6	98	18666	
RING AROUND RA 1502.....	91	17.5	100	19555					
SEED-KEM SK 80.....	65	16.4	100	21777					
SEED-KEM SK 86.....	81	18.5	100	20888	90	16.6	98	17555	
SEED-KEM SK 94.....	62	18.8	100	19888					
STURDY-GROW S/G 805A.....	74	17.6	99	21444					
STURDY-GROW S/G 827.....	67	18.2	95	19666					
STURDY-GROW S/G 847.....	53	17.3	100	20555					
SUPER-CBOST 5330.....	81	17.7	97	20333					
SUPER-CBOST 5440.....	70	16.4	100	19888	126	16.2	98	20000	
SUPER-CBOST 6800.....	63	18.3	100	22000					
TAYLOR-EVANS T.E. 6945.....	83	17.2	99	19222					
TAYLOR-EVANS T.E. 6968.....	66	17.8	97	20222	98	17.6	98	18555	116
TAYLOR-EVANS T.E. 6969.....	87	23.3	97	21777	82	18.6	95	16666	119
TAYLOR-EVANS T.E. 6980.....	64	19.8	100	21000	94	17.7	100	17222	
TAYLOR-EVANS T.E. 6992.....	67	16.8	98	21111	104	16.0	99	19444	88
TAYLOR-EVANS T.E. 6995-A.....	67	17.0	100	21555					
TAYLOR-EVANS T.E. 6995.....	75	16.4	99	21222	111	16.4	99	18444	
TRISLER T-335.....	50	17.4	100	20333					
TRISLER T-337.....	55	18.1	99	21222					
TRISLER T-5450.....	74	16.5	99	21111					
TRISLER T-5470.....	73	19.3	99	21333					
TRISLER T-5600.....	66	18.0	99	20555					
TRISLER T-7350.....	86	18.7	100	20777					
TRISLER T-7370.....	68	18.2	100	20333					
TRISLER T-7475.....	62	18.5	99	21555					
TRISLER T-934.....	57	20.5	100	21222					
TROJAN TXS 114.....	74	17.9	100	21888	121	16.0	96	17555	100
TROJAN TXS 115A.....	74	17.4	100	19111	116	17.0	98	19666	120
TROJAN TXS 119*.....	71	19.1	100	20222	110	19.0	99	19888	109
WHISNARD 80.....	64	18.7	100	20444	84	17.0	96	18333	102
WHISNARD 85.....	61	17.8	99	19888	104	16.4	100	20444	117
WIMBERHAN Z-20-Y.....	64	18.6	97	21666	105	18.4	88	10777	
WIMBERHAN Z-22-Y.....	77	18.4	98	20777					
WIMBERHAN Z-24-Y.....	88	19.1	99	20555	113	17.2	97	19333	
AVERAGE OF 1978 ENTRIES.....	71	18.2	99	20846					
L.S.D. 10% LEVEL.....	..	1.4	..	1541					
L.S.D. 30% LEVEL.....	..	0.9	..	969					
C.V.	23	5.8	1	5					

Table 13. — Extreme Southern Illinois Bottomland: Dixon Springs (Planted at 22,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	%ERECT PLANTS	YIELD PLANTS /ACRE	MOIST- URE %	%ERECT PLANTS	YIELD BU/A	MOIST- URE %	%ERECT PLANTS
ACCO UC 8951.....	92	23.7	98	21985					
ACCO UC 9792.....	94	24.3	96	21058	163	21.1	97	19000	
BO-JAC X505.....	61	20.7	99	21702					
BO-JAC X56B.....	60	23.3	98	22005	133	19.2	98	20000	191
BO-JAC X56.....	85	22.1	98	22037	135	18.9	65	20000	192
BO-JAC X69.....	71	22.4	98	21981					159
BO-JAC X701.....	100	22.4	99	21498	169	21.6	96	19111	25.6
BO-JAC X83.....	84	23.0	96	21507	131	20.3	87	20000	182
PS 680.....	95	21.9	98	21714					98
PS 850.....	107	25.6	97	21972	123	20.3	79	20000	19881
PS 854.....	79	23.2	98	21579	117	21.8	76	19444	180
PS 858.....	101	23.3	99	21979					26.6
PS 860.....	81	23.9	97	21760	117	22.6	59	19888	176
PS 884.....	99	24.5	98	21636	122	21.2	80	20000	28.7
GOLD TAG 4020.....	58	22.9	97	21167					97
JONES FARM STORE J7705.....	87	22.2	97	21986					
JONES FARM STCRE J7708.....	70	22.0	100	21295					
JONES FARM STCRE J7709.....	69	23.8	96	21347					
MCCURDY MSP888.....	109	23.4	97	21305	127	19.3	83	19777	177
MCCURDY 76-29.....	57	24.2	98	21474	150	21.4	87	19444	24.7
NOBLE NB 2611.....	95	23.5	97	21633					98
O'S GOLD SX5509.....	76	22.8	98	21492					19996
O'S GOLD TX311.....	53	22.6	99	21103					
POCKLINGTON P-7441.....	76	23.2	98	21281					100
POCKLINGTON P-813.....	61	21.4	95	21616					19997
POCKLINGTON P-880.....	75	24.5	97	21404	104	21.0	77	20000	
PREMIER SX633.....	69	22.4	96	21537	123	18.9	92	19333	168
PREMIER SX636.....	75	23.4	98	21226					22.3
PREMIER SX639.....	82	23.7	98	22030					98
PREMIER SX688.....	82	23.8	95	21233	126	21.3	92	19444	180
PRINCETON SP936.....	72	24.7	95	22007					24.1
PRINCETON SX810.....	81	23.0	99	20375					100
PRINCETON SX840.....	88	26.2	100	20520	156	20.6	91	20000	201
PRINCETON SX850.....	66	22.9	98	21515					24.7
PRINCETON SX910.....	75	25.4	99	21878	120	22.0	92	19222	169
97	28.3	99	20002						
RBA EXP 2000.....	83	23.2	98	22078					
RBA 114.....	79	22.8	98	20967					
RING AROUND BA 1501.....	51	21.3	98	22054					
RING AROUND BA 1502.....	88	24.1	95	21908					
RING AROUND BA 2502.....	100	23.7	98	20745					
RING AROUND BA 2744.....	89	22.9	99	20430					
TROJAN TXS 119.....	106	23.8	98	21454	126	21.4	76	20000	157
TROJAN T 1210.....	85	22.7	98	22054					25.8
U.S.S. 1515.....	84	25.5	98	20646	127	20.6	93	20000	197
U.S.S. 1516.....	73	21.1	96	21973					21.6
U.S.S. 2010.....	72	23.1	96	22091					99
WHISNAND 81.....	86	22.4	98	21888	135	19.0	61	19444	197
WHISNAND 85.....	71	22.2	96	21894	137	20.4	93	20000	162
ZIMMERMAN Z-11-W.....	95	24.9	98	21280	152	21.0	84	19666	21.4
ZIMMERMAN Z-19-W.....	76	22.6	98	21360	131	19.9	86	18777	99
ZIMMERMAN Z-20-Y.....	82	23.5	99	22029	122	21.7	76	20000	
ZIMMERMAN Z-22-Y.....	109	22.3	98	21326					
ZIMMERMAN Z-24-Y.....	86	23.2	98	21987	150	19.7	96	19888	186
ZIMMERMAN Z-52-W.....	52	25.6	99	21894	144	21.8	92	19333	23.8
AVERAGE OF 1978 ENTRIES.....	80	23.2	98	21559					99
L.S.D. 10% LEVEL.....	27	1.9	..	..					19892
L.S.D. 30% LEVEL.....	17	1.2	..	..					19993
C.V.	25	6.2	1	3					

Table 13a. — Extreme Southern Illinois Bottomland: Dixon Springs, Increased Planting Rate (Planted at 28,000 plants per acre in 30-inch rows)

BRAND --- VARIETY	1978 RESULTS			1977 RESULTS			1976 RESULTS		
	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS	YIELD BU/A	MOIST- URE %	% ERECT PLANTS
			/ACRE			/ACRE			/ACRE
ACCO AR38755.....	124	22.2	96	26753	160	20.5	48	23556	201
ACCO UC 8951.....	117	23.1	97	25390	134	20.5	52	23873	189
ASGROW BX115A.....	123	21.8	93	24530					
ASGROW RX4589.....	140	22.2	96	25639	117	19.6	63	23406	189
ASGROW RX98.....	133	21.4	95	26708					
BO-JAC X47.....	129	18.9	93	27330					
BO-JAC X505.....	120	21.3	95	26054					
BO-JAC X507.....	134	21.2	96	26417					
BO-JAC X52A.....	116	22.2	99	26121	124	19.4	78	23784	192
BO-JAC X52B.....	118	20.4	97	25599	135	19.0	76	23207	
BO-JAC X701.....	149	22.5	98	27340	146	20.5	54	24009	
BO-JAC 183.....	128	21.6	97	25202	156	19.4	80	23997	194
DEKALB XL 72A*.....	155	19.6	98	26511	111	19.2	33	24002	
DEKALB XL 72B*.....	131	21.8	99	25597	149	19.4	96	22848	174
DEKALB XL 75*.....	140	21.8	99	26150	122	18.1	63	22728	196
PS 680.....	141	20.3	92	26972					
PS 850.....	149	22.2	92	26585	135	19.6	47	23767	
PS 854.....	129	24.2	95	24832	110	21.0	73	22727	194
PS 858.....	131	20.6	99	27321					
PS 860.....	133	24.7	94	24911	108	21.3	26	23543	
PS 884.....	110	24.5	95	25054	105	20.6	69	23550	163
PUNKS EXP28549.....	171	22.3	93	26866					
PUNKS G-4507.....	153	20.9	95	26150	127	19.0	42	23991	172
PUNKS G-4520.....	141	20.7	95	26735	135	19.2	82	24020	211
PUNKS G-4606.....	159	20.7	97	26427					
GOLD TAG 4020.....	149	22.2	94	24884					
MCCURDY MSX70.....	128	21.1	98	26562	114	18.5	42	23660	219
MCCURDY MSX6A.....	122	23.9	97	26291					
MCCURDY MSX6E.....	121	21.2	95	25424	120	20.8	40	23996	
MUNCY-CHIEF SX776.....	141	21.1	94	25493					
MUNCY-CHIEF SX777.....	130	20.2	99	25846	115	18.0	86	23432	175
MUNCY-CHIEF SX878.....	113	22.4	92	27150					
NORTHRUP-KING PX715.....	107	23.2	98	26187	162	21.1	92	23998	174
NORTHRUP-KING PX74*.....	135	21.5	94	22898	97	18.8	23	24014	188
NORTHRUP-KING PX79*.....	120	20.2	99	25580	124	18.9	76	24009	170
NORTHRUP-KING PX87*.....	133	23.6	96	24693					
NORTHRUP-KING PX95*.....	128	23.1	95	25372	158	22.2	100	23765	215
O'S GOLD SX535*.....	127	21.9	98	26279	140	19.0	79	24001	
O'S GOLD SX540*.....	118	22.4	96	27846	158	19.9	78	23653	
PIONEER 3184*.....	142	24.9	98	25538	155	21.6	60	23296	
PIONEER 3311*.....	157	23.6	96	25365					
PIONEER 3334A*.....	97	21.7	97	26651	95	20.5	91	23307	161
PIONEER 3369A*.....	114	20.1	94	26696	155	18.9	85	23653	203
POCKLINGTON EX-7.....	117	21.6	98	27202					
PREMIEER SX633.....	143	21.5	96	27659	105	18.8	49	23330	164
PREMIEER SX636*.....	133	23.7	95	23303					
PREMIEER SX639*.....	105	22.7	96	26074					
PREMIEER SX638*.....	115	23.2	98	26200	137	20.3	79	22979	189
PRINCETON SP936.....	106	24.8	96	26501					
PRINCETON SX840.....	83	23.2	96	25387	144	21.0	89	23774	168
PRINCETON SX850.....	111	23.0	97	25987	121	19.7	81	23534	149
PRINCETON SX910.....	113	25.0	97	27893	120	21.0	83	23297	185
P.A.G. SX 17A.....	155	21.9	93	26780	70	18.1	16	23863	
P.A.G. SX 333.....	134	20.6	96	26251					
P.A.G. SX 346.....	133	20.1	98	25222					
RING AROUND RA 1501*.....	123	20.4	99	26338					
RING AROUND RA 1502*.....	124	22.5	95	23908					
STURDY-GROW S/G 805A*.....	149	20.6	96	26061	130	20.0	66	22170	
STURDY-GROW S/G 826*.....	99	21.9	97	26930	148	20.9	98	23641	
STURDY-GROW S/G 827*.....	130	21.8	100	27617				162	25.0
STURDY-GROW S/G 847*.....	115	20.9	89	25654	123	19.6	74	22842	
STURDY-GROW S/G 852A*.....	98	22.8	98	26950				173	22.7
STURDY-GROW S/G 904W*.....	106	22.5	97	27810				191	29.1
STURDY-GROW S/G 935W*.....	108	22.8	97	26362	121	20.7	73	22971	
TAYLOR-EVANS T.E. 6945*.....	126	20.9	96	24545					
TAYLOR-EVANS T.E. 6968*.....	118	22.3	96	23874	152	18.9	94	23427	166
TAYLOR-EVANS T.E. 6969*.....	129	22.5	98	23698	109	21.0	33	23879	157
TAYLOR-EVANS T.E. 6980*.....	130	22.1	94	24138	121	19.9	83	23660	172
TAYLOR-EVANS T.E. 6992*.....	101	38.1	95	27827	135	18.7	55	23430	175
TAYLOR-EVANS T.E. 6995-A*.....	123	21.1	96	25686					
TAYLOR-EVANS T.E. 6995*.....	127	21.4	95	27674	124	18.8	18	23307	189
TROJAN TXS 114*.....	131	21.4	98	26970	161	19.7	57	22967	193
TROJAN TXS 115A*.....	152	21.0	97	26372	139	18.9	43	23660	196
TROJAN TXS 119*.....	123	22.5	97	27506	123	20.9	67	23320	
WHISNAND 80*.....	155	22.7	95	27360	122	19.8	76	23185	
WHISNAND 81*.....	153	21.4	96	25745	112	18.2	21	24003	182
WHISNAND 83*.....	105	20.6	98	25945					
WHISNAND 85*.....	112	19.8	98	26775	108	18.8	97	24025	171
ZIMMERMAN Z-20-Y*.....	141	21.3	97	28192	159	21.4	75	23314	
ZIMMERMAN Z-22-Y*.....	125	22.9	97	26387					
ZIMMERMAN Z-24-Y*.....	111	19.9	96	28340	179	19.4	84	23757	
AVERAGE OF 1978 ENTRIES.....	127	22.1	96	26137					
L.S.D. 10% LEVEL.....	29	..	3	..					
L.S.D. 30% LEVEL.....	18	..	2	..					
C.V.	16	15.0	3	7					



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